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HDPSB10	8928	961309	AL121845	40920	1-214 1997-2153 3267-3554 5599-5914
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HBJDZ49	9502	847928	AC004867	42393	1-583 834-1954
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HBJDZ49	9502	847928	AC005088	42395	1-3121

HBJDZ49	9502	847928	AC005488	42396	3128-4110 1-867 1144-2852 2949-4487 4579-5789 5978-9485 10048-10911 11334-11700 12034-12509 13205-13321 13907-14417
HBJDZ49	9502	847928	AC005488	42397	1-735 738-975
HBJDZ49	9502	847928	AC005098	42398	1-866 1143-2850 2949-4489 4581-5793 5905-8184 8255-9460 10026-10834 11078-11157 11307-11672 12131-12486 13183-13299 13912-14426
HBJDZ49	9502	847928	AC005098	42399	1-937
HBJDZ49	9502	847928	AC004166	42400	1-868 1146-2858 2957-4497 4589-5801 5913-9479 10043-10851 11095-11174 11333-11698 12157-12512 13938-14451
HBJDZ49	9502	847928	AC004166	42401	1-583 834-1954
HBJDZ49	9502	847928	AC005071	42402	1-896
HBJDZ49	9502	847928	AC061712	42403	1-1123 1396-3493 3581-3836 3838-7040 7048-8923
HBJDZ49	9502	847928	AC005071	42404	1-513 2138-2341 2878-3828 4039-4407 4438-5711 6609-6900 6969-7501 7547-7645 7882-8496 8569-9146 9288-11595 11642-11927 12146-12299

					12591-12757 13029-13369 13719-14460 14563-14623 14709-15271 15352-16582 16831-17249 17276-17914 17947-18016 18327-19493 19719-20635 21586-21816 24795-25126 26501-26923 27475-28264 28742-29110 29565-29655 29657-29867 31272-31718
HBJDR24	9503	677407	AC009951	42405	1-642
HBJDR24	9503	677407	AC009951	42406	1-327
HBJDR24	9503	677407	AC009951	42407	1-486
HBJDQ86	9504	784654	AL133548	42408	993-1122 1-50 3009-3073 4198-4253 5692-5831 6776-6827 8851-8970 9968-10050 12598-12974 13262-13364 16417-16776 19112-20566
HBJDQ86	9504	784654	AL133548	42409	1-1017
HBJDM70	9505	757435	AC010894	42410	1-380
HBJDM70	9505	757435	AC010894	42411	1-502
HBJDL24	9506	678272	AC008675	42412	1-996
HBJDL24	9506	678272	AC008675	42413	1-300
HBJCQ65	9508	876430	AF192303	42414	1-1230 1271-3810
HBJCJ82	9509	779645	AL161456	42415	1-1118
HBJCJ82	9509	779645	AL158075	42416	1-1523
HBJCJ82	9509	779645	AL158075	42417	1-853 1340-2553
HBJCJ82	9509	779645	AL158075	42418	1-482
HBJCE07	9510	954090	AC025605	42419	1-357 443-919
HBJCE07	9510	954090	AC073101	42420	1-357
HBJCE07	9510	954090	AC025605	42421	1-653
HBJCE07	9510	954090	AC073101	42422	1-233
HBJCE07	9510	954090	AC073101	42423	1-420
HBJBR04	9512	847952	AC005682	42424	1-458
HBJBR04	9512	847952	AC005682	42425	1-373
HBJAP95	9513	796659	AL138715	42426	1-1044
HBJAP95	9513	796659	AL031601	42427	1-590 1338-1600

					2644-3247
HBJAP95	9513	796659	AL138715	42428	1-717
HBJAP95	9513	796659	AL138715	42429	1-265
HBJAP95	9513	796659	AL031601	42430	1-706
HBJA49	9515	723164	AC078846	42431	1-416
					1103-1882
HBJA49	9515	723164	AC078846	42432	1-116
HBJAH27	9517	682941	AC016325	42433	1-69
					560-632
					2298-2395
					2510-2613
					3563-3801
					5031-5598
					5763-5801
HBJAE32	9518	699695	AC044843	42434	1-487
					983-1447
HBJAE32	9518	699695	AC008525	42435	1-487
					983-1447
HBJAE32	9518	699695	AC008525	42436	1-337
HBJAB49	9520	722195	AF276759	42437	1-1613
HBJAB49	9520	722195	AC019031	42438	1-1613
HBJAB49	9520	722195	AF276759	42439	1-561
HBJAB49	9520	722195	AC019031	42440	1-561
HBJAB28	9521	847966	AC023071	42441	1-736
HBJAB15	9522	660552	AP001931	42442	1-1266
HBJAB15	9522	660552	AP000727	42443	1-1264
HBJAB15	9522	660552	AP001931	42444	1-366
HBJAB15	9522	660552	AP001931	42445	1-308
HBJAB15	9522	660552	AP000727	42446	1-366
HBJAB15	9522	660552	AP000727	42447	1-308
HBDAE47	9523	720008	AL353776	42448	1-1591
HBDAE47	9523	720008	AL353776	42449	1-490
HBDA16	9525	661560	AC013396	42450	1-1371
HBDA16	9525	661560	AC013396	42451	1-296
HBDA16	9525	661560	AC013396	42452	1-204
HBCCO10	9526	963157	AC009634	42453	1-575
HBCCO10	9526	963157	AC011721	42454	1-575
HBCCO10	9526	963157	AC009634	42455	1-206
HBCCO10	9526	963157	AC011721	42456	1-206
HBCCO10	9526	963157	AC011721	42457	1-86
HBCCJ05	9527	930956	AC068322	42458	1-600
HBCCJ05	9527	930956	AC027243	42459	1-600
HBCCJ05	9527	930956	AC024059	42460	1-600
HBCCJ05	9527	930956	AC010868	42461	1-584
HBCCJ05	9527	930956	AC068322	42462	1-424
HBCCJ05	9527	930956	AC027243	42463	1-456
HBCCJ05	9527	930956	AC068322	42464	1-460
					1112-1585
HBCCJ05	9527	930956	AC027243	42465	1-460
					1112-1585
HBCCJ05	9527	930956	AC024059	42466	1-456
HBCCJ05	9527	930956	AC010868	42467	1-385
HBCCJ05	9527	930956	AC010868	42468	1-335
HBCCD06	9529	938319	AC007783	42469	1-2334
					2508-3084
					3578-3890

					4198-4294 4376-4623 4712-5349 5369-6088 6527-7107 7298-7392 7730-7846 9147-9476 10487-10575 10791-11298 11485-11601 11783-13009 13207-13501 13540-13772 14439-14800 14923-14983 15133-15355 15485-15653 16750-16805 16894-17078 17162-17219 18003-18089 21085-21146 21358-21501
HBCCD06	9529	938319	AC007783	42470	1-308
HBCCD06	9529	938319	AC007783	42471	1-1024
HBCCB51	9530	975256	AL139353	42472	1-71 265-794 1791-2077 2409-2656
HBCBN51	9532	952057	AC073846	42473	1-141 323-951 1073-1625 1640-2371
HBCBN51	9532	952057	AC073846	42474	1-285
HBCBF12	9535	969578	AC068735	42475	1-530
HBCBF12	9535	969578	AC021725	42476	1-534
HBCBF12	9535	969578	AL021368	42477	1-382 762-1102 1231-1761
HBCBF12	9535	969578	AC068735	42478	1-342
HBCBF12	9535	969578	AC021725	42479	1-342
HBCBF12	9535	969578	AC068735	42480	1-659
HBCBF12	9535	969578	AC021725	42481	1-679
HBCBF12	9535	969578	AL021368	42482	1-664
HBCBF12	9535	969578	AL021368	42483	1-307
HBCBE57	9536	848322	AL031666	42484	1-1235
HBCBE57	9536	848322	AL031666	42485	1-508
HBCBE57	9536	848322	AL031666	42486	1-648
HBCBB22	9537	848325	AC010735	42487	1-900
HBCAT10	9539	968195	AL357521	42488	1-374
HBCAT10	9539	968195	AL021528	42489	1-374
HBCAT10	9539	968195	AL357521	42490	1-689
HBCAT10	9539	968195	AL357521	42491	1-355
HBCAT10	9539	968195	AL021528	42492	1-689
HBCAT10	9539	968195	AL021528	42493	1-355

HBCAS32	9540	699489	AC007101	42494	1-215 867-1214 1226-2260 2359-2415
HBCAQ85	9541	783431	AC019071	42495	1-831 1116-1365 1600-1920 2161-2334 2902-3156 3364-3836 4074-4278 4306-4417 4485-4581 4693-4853 4995-5264 5758-5863 6411-6509 6551-6922
HBCAQ85	9541	783431	AC019071	42496	1-412
HASCG58	9543	738423	AC011116	42497	1-869
HASCG58	9543	738423	AC078794	42498	1-870
HASCG58	9543	738423	AC011116	42499	1-971
HASCG58	9543	738423	AC078794	42500	1-623
HASCG58	9543	738423	AC011116	42501	1-623
HASAW90	9544	789112	AC010234	42502	1-2931
HASAW90	9544	789112	AC021464	42503	1-58 332-547 909-1209 2280-2634 3445-3539 4477-4620 7577-10496 12087-13447 13462-15091 15142-16137
HASAW90	9544	789112	AC021464	42504	1-506
HASAC10	9546	968746	AC007677	42505	1-477
HASAC10	9546	968746	AC007677	42506	1-1410

[052] Table 1B summarizes additional polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).

TABLE 2

Clone ID NO:Z	Contig ID:	SEQ ID NO:X	Analysis Method	PFam/NR Description	PFam/NR Accession Number	Score/ Percent Identity	NT From	NT To
HAMHB21	961376	11	HMMER 2.1.1	PFAM: RhoGAP domain	PF00620	100	497	916
HBDAC79	935414	26	HMMER 2.1.1 blastx.14	PFAM: Acyl-CoA dehydrogenase (AL021958) fadE9 [Mycobacterium tuberculosis]	PF00441 gi 2911026 emb CAA 17519.1	102.6 62% 51% 64% 35%	94 250 348 6	342 235 384 422 89
HBJAG72	722723	32	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.32	83	115
HBJGT92	919507	107	HMMER 1.8	PFAM: Bacterial mutT protein	PF00293	7.68	377	436
HBJJY20	669519	141	HMMER 2.1.1	PFAM: Om/Lys/Arg decarboxylase	PF01276	53.1	49	162
HBMBU24	677240	234	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	7.72	139	192
HBMBZ71	880580	238	HMMER 1.8	PFAM: von Willebrand factor type D domain	PF00094	26.52	200	526
HBMDC16	888206	258	blastx.2	Butyrophilin-like protein BUTR-1.	sp AAF72554 AAF72 554	50%	19	315
HBMUO90	928078	294	blastx.14	Zfp61p [Mus musculus]	gi 887887 gb AAC52 290.1	84% 53%	24 154	119 243
HBMXE31	573323	317	HMMER 1.8	PFAM: Gonadotropin- releasing hormones	PF00446	10.78	112	141
HCFCF47	894415	372	HMMER 1.8	PFAM: Eukaryotic protein kinase domain	PF00069	89.54	20	295
HCFCJ21	671028	374	HMMER	PFAM: Core histones	PF00125	12.79	123	188

HCFL95	945122	391	1.8 blastx.14	H2A, H2B, H3 and H4 p34 protein [Rattus sp.]	gi 534876 dbj BAA02786.1	81% 100% 85%	126 236 71	191 271 91
HCUAL07	953876	449	blastx.14	(AF079098) arginine-tRNA-protein transferase 1-1p; ATE1-1p [Homo sapiens]	gi 3806094 gb AAD12366.1	87%	5	97
HCUB11	967484	478	blastx.14	Ps 2=basic proline-rich protein(PRB1L precursor 1 1 [Homo sapiens]	gi 386433 gb AAB27289.1	37% 53% 35% 40% 28% 40% 36% 36% 41% 41% 32% 33% 36% 71% 71% 35%	158 62 325 133 158 133 225 225 74 74 325 158 158 183 44 44 74	63 24 242 59 63 59 160 160 24 24 242 87 93 118 24 24 24
HCUDT65	915742	548	HMMER 2.1.1 blastx.14	PFAM: tRNA synthetases class II (A) ORF YNL040w [Saccharomyces cerevisiae]	PF01411 gi 1301892 emb CAA95907.1	35.1 42% 52% 31% 42%	697 763 658 1153 1678	930 972 759 1293 1740

HCUEU10	964857	595	HMMER 1.8	PFAM: Bacterial regulatory proteins, luxR family	PF00196	21% 20% 5.43	1009 1273 13	1149 1494 42
HCUGB48	880730	647	HMMER 1.8	PFAM: TNFR/NGFR cysteine-rich region	PF00020	7.99	173	226
HCUGR38	706471	670	HMMER 1.8	PFAM: Alcohol/other dehydrogenases, short chain type	PF00106	73.02	102	284
HCUHM44	615198	702	HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505	4.81	2	73
HCWAK80	702435	748	HMMER 1.8	PFAM: Src homology domain 3	PF00018	3.55	316	387
HCWAR05	932623	759	blastx.14	hypothetical protein [Synecocystis sp.]	gi 1653272 dbj BAA1 8187.1	47% 46% 71%	235 70 321	83 32 301
HCWBB63	667283	782	HMMER 2.1.1	PFAM: Secretory protein of YscJ/FliF family	PF01514	78.2	45	275
HCWBE76	968515	799	HMMER 1.8	PFAM: Helix-loop-helix DNA-binding domain	PF00010	9.77	13	51
HCWBI37	967717	809	blastx.14	URF (pot. 4.5S protein) [Escherichia coli]	gi 42759 emb CAA25 537.1	63% 85% 60%	9 202 228	179 222 257
HCWBI53	934909	810	blastx.14	lepA [Mycobacterium tuberculosis]	gi 165365 emb CAB 03723.1	85% 84%	65 9	166 65
HCWBI90	921653	812	blastx.14	xylose isomerase [Klebsiella pneumoniae]	gi 43952 emb CAA43 389.1	59% 55%	316 344	8 291
HCWBN06	924638	825	blastx.14	collagen type XVII [Mus musculus]	gi 309183 gb AAA37 443.1	26% 46%	153 262	266 306

HCWBQ03	920886	834	blastx.14	ORF YBR208c [Saccharomyces cerevisiae]	gi 536588 emb CAA85172.1	57%	5	46
HCWCM65	529230	891	HMMER 1.8	PFAM: AMP-binding enzymes	PF00501	36%	75	140
HCWCR31	693632	909	HMMER 2.1.1	PFAM: ATP synthase (E/31 kDa) subunit	PF01991	46%	259	303
HCWDI64	924632	945	blastx.14	tetracycline transporter-like protein [Mus musculus]	gi 2506078 dbj BAA22622.1	43%	310	357
HCWDJ23	527555	952	HMMER 2.1.1	PFAM: Bacterial extracellular solute-binding proteins, family 3	PF00497	75%	337	360
HCWDL45	889416	957	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	42%	147	287
HCWDR01	839104	973	HMMER 1.8	PFAM: ABC transporters	PF00005	54%	3	74
HCWDV17	974478	993	HMMER 1.8	(AE000411) putative ATP-binding component of a transport system [Escherichia coli]	gb AAC76377.1	69%	9	215
HCWDX22	967361	1014	blastx.14	PFAM: Bacterial regulatory proteins, luxR family	PF00196	44%	18	200
				copC peptide	gi 151190 gb AAA25	51%	391	477
						81.59	416	613
						79%	365	84

HCWDX76	932614	1019		blastx.14	[Pseudomonas syringae] (AF102543) unknown [Zymomonas mobilis]	808.1 gi 378174 gb AAD19419.1	81%	423	358
HCWED61	971865	1041		blastx.14	gp210 (AA 1-1886) [Rattus norvegicus]	gi 56463 emb CAA68759.1	75%	481	212
HCWEG69	948693	1058		HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.79	57	98
HCWEI19	948690	1066		HMMER 1.8	orf3 [Pseudomonas aeruginosa]	gi 557259 emb CAA57572.1	55% 87%	248 56	45 9
				blastx.14	PFAM: Zinc-binding metalloprotease domain	PF00099	8.6	226	273
				blastx.14	formaldehyde dehydrogenase (glutathione) [Escherichia coli]	gi 887431 emb CAA52057.1	75%	300	10
HCWEL01	916972	1086		blastx.14	(AF010496) exonuclease SbcD homolog [Rhodobacter capsulatus]	gi 3128267 gb AAC16119.1	39% 47%	34 193	171 249
HCWEM51	920887	1096		blastx.14	argininosuccinate lyase [Bacillus subtilis]	gi 2635409 emb CAB14904.1	54% 47%	365 57	39 7
HCWEQ14	908245	1105		HMMER 1.8	PFAM: DEAD and DEAH box helicases	PF00270	72.08	37	177
				blastx.14	(AC002985) R27090_2 [Homo sapiens]	gi 2443870 gb AAB81544.1	100% 66%	37 5	177 40
HCWEW45	571355	1116		HMMER 1.8	PFAM: Heat shock hsp90 proteins	PF00183	10.32	37	186
HCWEY34	954142	1125		blastx.14	(AJ000758) precorrin-4 methylase [Bacillus megaterium]	gi 3724045 emb CAA04314.1	32%	3	242

HCWFF88	506577	1143	HMMER 1.8	PFAM: Src homology domain 3	PF00018	4.92	140	181
HCWFK57	861907	1149	HMMER 2.1.1	PFAM: RNA polymerase beta subunit	PF00562	36.2	34	270
HCWFT29	690751	1186	HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	4.51	105	152
HCWUFU66	853005	1196	HMMER 2.1.1	PFAM: Aldehyde dehydrogenase family	PF00171	71.4	105	269
HCWGB78	861843	1217	HMMER 2.1.1	PFAM: Ribosomal protein L31	PF01197	50.8	126	236
HCWGE12	967067	1223	HMMER 1.8	PFAM: Bacterial mutT protein	PF00293	4.04	214	288
HCWGW12	964088	1262	blastx.14	L-lactate dehydrogenase (EC 1.1.1.27) - Acinetobacter 1	pir A37334 A37334	73%	137	60
HCWGY90	960159	1288	HMMER 1.8	PFAM: Bacterial regulatory helix-loop- helix proteins, araC family	PF00165	58.7	6	137
HCWHB12	970688	1295	blastx.14	operon regulatory protein [Erwinia carotovora]	gi 148382 gb AAA24 811.1	86%	6	158
HCWHD07	953384	1305	blastx.14	Nodulation protein V (EC 2.7.3.-), [Escherichia coli]	gi 1736771 dbj BAA1 5920.1	47% 33% 85%	195 59 310	314 211 330
HCWHP74	598510	1334	blastx.14	Isp42p [Saccharomyces cerevisiae]	gi 736300 emb CAA8 8644.1	41% 46% 50%	56 298 341	301 393 394
			HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.09	68	112

HCWHQ03	924187	1336	blastx.14	(AL049608) extensin-like protein [Arabidopsis thaliana]	gi 4584539 emb CAB40769.1	50%	85	14
						45%	271	206
						35%	209	126
						43%	300	253
						46%	291	247
						85%	238	218
HCWHQ31	574945	1337	HMMER 2.1.1	PFAM: Carbon-nitrogen hydrolase	PF00795	39.4	141	308
HCWHR81	935419	1343	HMMER 2.1.1	PFAM: Ribosomal protein L30p/L7e	PF00327	90.5	107	265
HCWHT59	924105	1349	blastx.14	(AF047828) syringomycin synthetase [Pseudomonas syringae pv. syringae]	gi 3510629 gb AAC80285.1	57%	261	148
						45%	327	148
						50%	261	148
						50%	261	148
						36%	122	9
						34%	122	9
						61%	329	252
						55%	157	104
						40%	104	9
						33%	107	9
						66%	142	107
						55%	305	252
						26%	249	160
						26%	249	160
						44%	305	252
						41%	157	107
						41%	157	107
						33%	311	249
						22%	107	15
						32%	246	163
HCWKFO8	959388	1388	blastx.14	pot. ORF 1 [Homo	gi 1335196 emb CAA	57%	83	27

				sapiens]	26917.1]		62%	303	256
HCWKN08	959380	1409	blastx.14	Ceob [Burkholderia cepacia]	gi 2109271 gb AAB58161.1]		32%	192	82
HCWKV68	959801	1427	blastx.14	(AL121600) hypothetical protein SCF76.09 1			47%	247	179
HCWLD06	935392	1437	blastx.14	ORF_0485 [Escherichia coli]	gi 6002364 emb CAB56729.1]		55%	249	169
HCWLE37	960093	1442	blastx.14	(AF039571) peripheral benzodiazepine receptor interacting protein; PBR-IP/PRAX1 [Homo sapiens]	gi 887832 gb AAA83063.1]		50%	148	83
HCWLH79	959458	1453	blastx.14	(AC004877) sco-spondin-mucin-like; similar to P98167 1 sapiens]	gi 4104812 gb AAD11957.1]		62%	281	258
HCWTB11	965024	1462	blastx.14	DNA primase [Escherichia coli]	gi 3638957 gb AAC36301.1]		54%	61	29
HCWTB56	853009	1470	HMMER 1.8	PFAM: EI-E2 ATPases			34%	219	142
			blastx.2	cadmium resistance protein [Lactococcus lactis]	gi 147755 gb AA24600.1]		42%	120	43
HCWTR08	958791	1516	blastx.14	(AE000888) malate dehydrogenase [Methanobacterium]	gb AAB37345.1]		57%	238	218
							47%	240	7
							42%	449	282
							35%	66	7
							100%	126	263
							85%	304	345
							87%	103	126
							44%	66	119
							36%	250	315
							27%	289	191
							71%	326	306
							45%	341	3
							55.15	2	301
							42%	2	316
							43%	66	134
							44%	182	262

HCWTR54	729290	1517	HMMER 1.8	thermoautotrophicum] PFAM: Helicases conserved C-terminal domain	PF00271	6.14	151	198
HCWTS15	654317	1519	HMMER 1.8	PFAM: D-isomer specific 2-hydroxyacid dehydrogenases	PF00389	47.52	2	166
HCWUU16	661570	1593	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.17	33	77
HDDMA83	926991	1633	blastx.14	(AF038963) RNA helicase [Homo sapiens]	gi 4405795 gb AAD1 9826.1	100% 51% 100%	2 537 656	514 635 694
HDMAQ15	941282	1646	HMMER 2.1.1	PFAM: POT family	PF00854	77.2	811	386
			blastx.2	(AF121080) cAMP inducible 1 protein [Mus musculus]	gb AAD24570.1 AF1 21080_1	80%	2	997
HDPAG32	947832	1655	HMMER 2.1.1	PFAM: Peptidase family M1	PF01433	39.1	335	577
HDPNC94	794275	1678	HMMER 2.1.1	PFAM: RhoGEF domain	PF00621	54.2	363	740
HDPF07	974494	1694	blastx.14	(AF151363) Cdc42 GTPase-activating protein [Mus musculus]	gi 5020264 gb AAD3 8043.1 AF151363_1	92% 96% 50%	513 715 458	716 789 505
HDPIT53	926498	1736	blastx.14	(AF109719) BAT2 [Mus musculus]	gi 3941737 gb AAC8 2480.1	50% 30%	229 278	170 219
HDPIT61	741724	1737	blastx.2	(AF121080) cAMP inducible 1 protein [Mus musculus]	gb AAD24570.1 AF1 21080_1	73% 57%	48 293	329 397

HDPKD52	959653	1750	HMMER 1.8	PFAM: Fibronectin type III domain	PF00041	4.82	340	402
HDPLC45	909091	1755	HMMER 2.1.1	PFAM: BTB/POZ domain	PF00651	39.5	280	507
HDPMA48	582015	1775	blastx.2	(AF038007) FIC1 [Homo sapiens]	gb AAC63461.1	54%	152	703
HDPMO62	912722	1780	HMMER 1.8	PFAM: Ras family (contains ATP/GTP binding P-loop)	PF00071	132.39	127	432
			blastx.2	rab-related GTP-binding protein [Homo sapiens]	emb CAA68227.1	54% 57%	133 20	444 76
HDPNC96	934520	1788	HMMER 1.8	PFAM: Eukaryotic protein kinase domain	PF00069	206.63	3	734
			blastx.14	HUMAN NDR [unidentified]	gi 2304746 emb CAA 03387.1	92%	3	734
HDPOL93	792193	1797	HMMER 1.8	PFAM: EF hand	PF00036	7.78	266	313
HDPPT24	812091	1815	HMMER 2.1.1	PFAM: Fes/CIP4 homology domain	PF00611	22.4	151	387
HDPPT44	951276	1818	HMMER 1.8	PFAM: Lectin C-type domain short and long forms	PF00059	37.49	245	376
HDPRH02	919404	1837	blastx.14	ORF YGR090w [Saccharomyces cerevisiae]	gi 123133 emb CAA 97093.1	30% 48%	266 593	451 673
HDPSTG10	961323	1849	blastx.14	reverse transcriptase [Homo sapiens]	gi 439877 gb AA02 291.1	66% 37% 54%	6 280 235	59 351 267
HDPWTW90	722699	1868	HMMER 1.8	PFAM: IG (immunoglobulin)	PF00047	3.32	1	24

HDPVG11	966556	1877	HMMER 1.8	superfamily PFAM: PH (pleckstrin homology) domain	PF00169	16	518	613
HDPWE80	909916	1890	HMMER 2.1.1 blastx.2	PFAM: PH domain (AF102854) membrane- associated guanylate kinase-interacting protein 2 Maguin-2 [Rattus norvegicus]	PF00169 gb AAD04568.1	81.2 36%	412 349	708 756
HDPWY46	915964	1894	blastx.14	(AF061738) leucine aminopeptidase [Homo sapiens]	gi 433594 gb AAD1 7527.1	94% 87% 80% 95% 62% 33%	3 316 140 254 425 305	152 438 217 316 472 358
HDQEF04	927024	1914	blastx.14	Bassoon [Mus musculus]	gi 3413810 emb CAA 76598.1	75%	239	216
HDQGT70	909848	1936	blastx.14	Bat2 [Homo sapiens]	gi 29375 emb CAA78 744.1	37%	248	201
HDQHT10	963481	1944	blastx.14	(AF039571) peripheral benzodiazepine receptor interacting protein; PBR- IP/PRAX1 [Homo sapiens]	gi 4104812 gb AAD1 1957.1	58% 43% 100% 55% 42% 58% 83%	490 387 76 253 256 45 51	455 319 59 227 215 10 34
HDQHZ10	961336	1945	blastx.14	fractionated X-irradiation- induced 29 thymoma [Mus musculus]	gi 1389694 gb AAB0 2905.1	51% 71%	47 2	256 43
HDQHZ22	879416	1946	blastx.2	cysteine rich hair keratin	emb CAA56339.1	40%	65	319

HD1AY23	973925	1956	blastx.14	associated protein [Oryctolagus cuniculus] (AF086624) serine threonine kinase [Rattus norvegicus]	gi 3800869 gb AAC6 8900.1	42%	65	352
HD1AY23	974565	9561	blastx.14	(AF086624) serine threonine kinase [Rattus norvegicus]	gi 3800869 gb AAC6 8900.1	98%	78	254
HD1BO48	945083	1959	HMMER 1.8	PFAM: IG (immunoglobulin) superfamily	PF00047	98% 85% 100% 66%	79 330 371 305	255 371 403 331
HD1BR50	846630	1968	blastx	(AJ009698) embigin protein [Rattus norvegicus]	emb CAA08796.1	58% 75% 58%	132 273 357	248 356 464
HD1BY88	934472	1973	HMMER 2.1.1 blastx.14	PFAM: Thioredoxins	PF00085	29.85	163	297
HD1DC53	916348	1977	HMMER 1.8 blastx.14	PFAM: Eukaryotic protein kinase domain	PF00069	93.6	3	302
HD1TE19	912765	1984	HMMER 1.8 blastx.14	p50 KKLAMRE protein kinase [Homo sapiens]	gi 1517820 gb AAC5 0918.1	82% 35% 100%	3 192 492	170 458 509
HD1TES50	964709	1987	HMMER 1.8 blastx.2	PFAM: Core histones H2A, H2B, H3 and H4 rab4b [Canis familiaris]	PF00125	7.98	180	233
				PFAM: RNA recognition motif. (aka RRM, RBD, or RNP domain)	gi 919 emb CAA3980 0.1	78% 88%	244 387	354 413
				arginine-rich nuclear	gi AAA35554.1	31.58	108	326
						65%	36	350

HDTHQ15	923899	2009	blastx.14	protein [Homo sapiens] Similar to a C.elegans protein encoded in cosmid C27F2 (U40419) [Homo sapiens]	gi 1665781 dbj BAA1 3387.1	97%	4	612
HDTHZ46	957669	2012	blastx.14	(AC004877) sco-spondin- mucin-like; similar to P98167.1 sapiens]	gi 3638957 gb AAC3 6301.1	43% 42% 46% 43% 40% 38%	100 45 172 2 5 318	168 101 216 49 49 371
HDTHD61	908946	2016	HMMER 1.8 blastx.2	PFAM: Zinc finger, C2H2 type (AK002053) unnamed protein product [Homo sapiens]	PF000096 dbj BAA92059.1	7.07 46% 53% 50% 45% 47% 49% 46% 33% 42% 34% 51% 57% 37% 32% 50% 47% 66%	407 45 45 33 45 45 48 45 18 18 60 18 347 347 338 374 338 519	430 389 341 341 389 344 356 344 674 320 554 245 547 553 457 442 554
HDTHF01	883070	2017	blastx.2	(AF010144) neuronal	gb AAC08737.1	61%	315	524

HDTIZ44	925574	2032	blastx.14	procollagen alpha 2(V) [Homo sapiens]	thread protein AD7c-NTP [Homo sapiens]	gi 2370202 emb CAA75002.1		61%	309	509
								65%	361	507
								62%	34	162
								60%	53	172
								41%	304	507
								35%	286	507
								40%	327	473
								50%	50	151
								57%	89	166
								47%	109	171
								37%	308	379
								52%	128	178
								43%	77	9
								40%	89	9
								37%	89	9
								57%	229	188
								47%	183	133
								60%	135	106
								47%	328	278
								75%	165	142
								60%	121	92
								43%	139	92
								54%	165	133
								60%	162	133
								54%	226	194
HDTIJ37	799834	2036	HMMER 1.8	PFAM: Laminin B (Domain IV)		PF00052		2.02	386	466
HDTIJ02	913787	2037	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain		PF00130		5.7	21	68
HDTKQ14	886936	2044	HMMER	PFAM: Src homology		PF00018		12.87	430	546

HDTLD17	908601	2052	1.8 blastx.2	domain 3 (AL049683) hypothetical protein [Homo sapiens] PFAM: Zinc finger, C2H2 type	emb CAB41255.1	100%	439	555
			HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	56%	76	291
HDTLD17	908601	2052	blastx.2	Zfp-29 [Mus musculus]	emb CAA38920.1	96.3	154	222
						48%	49	636
						65%	49	399
						66%	49	399
						66%	70	399
						65%	49	411
						62%	49	369
						64%	70	381
						47%	115	636
						58%	49	324
						42%	372	641
						50%	375	569
						47%	375	569
						47%	375	569
						48%	372	569
						43%	372	578
						42%	372	602
						46%	375	569
						35%	279	569
						43%	372	569
						43%	375	569
						46%	375	569
						63%	547	636
						63%	547	636
						52%	538	651
						56%	547	642
						35%	375	491

HEOMG48	963338	2091	blastx.14	very large tegument protein [human herpesvirus 2]	gi 1869859 emb CAB06722.1	66%	641	667
						63%	460	428
						50%	338	303
						33%	290	228
						38%	154	92
						50%	82	41
						29%	219	148
HEOMG78	920911	2092	blastx.14	contains similarity to C2 domains [Caenorhabditis elegans]	gi 1825586 gb AAB42222.1	70%	294	437
						40%	136	246
HEOMS08	959581	2113	blastx.14	(AF034970) docking protein [Homo sapiens]	gi 3043919 gb AAC13265.1	93%	129	173
HEOMT79	936687	2118	blastx.14	(AF108420) 1-aminocyclopropane-carboxylate synthase [Fugu rubripes]	gi 4426837 gb AAD20564.1	83%	172	207
						52%	10	210
HEOMU79	965900	2121	blastx.14	HLA-B-associated transcript 2 (BAT2) [Homo sapiens]	gi 179339 gb AAA35585.1	29%	320	198
HEOMX92	919200	2131	blastx.14	TGR-CL5bis [Homo sapiens]	gi 1247469 emb CAA01862.1	53%	274	230
						38%	129	91
						53%	271	233
						30%	44	6
HEOMX92	961148	9562	blastx.14	retrovirus-related reverse transcriptase pseudogene - slow loris	pir B25313 GNLRL1	27%	206	174
						46%	44	241
						50%	247	312
HEONQ19	930705	2142	HMMER 2.1.1	PFAM: PH domain	PF00169	42.5	213	533
			blastx.2	(AJ250425) Collybistin I [Rattus norvegicus]	emb CAB65966.1	96%	9	629

HEONV59	949152	2148	blastx.2	(AK001463) unnamed protein product [Homo sapiens]	dbj BAA91707.1	51% 50%	163 284	279 379
HEOPE58	851009	2157	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	5.32	320	364
HEOPO08	938184	2174	blastx.14	alpha-1 type II collagen [Xenopus laevis]	gi 214044 gb AAA49679.1	38% 32% 31% 75% 36%	142 429 429 273 208	11 346 334 250 134
HEOQC76	909032	2189	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	86.9	169	237
			blastx.2	(AK001753) unnamed protein product [Homo sapiens]	dbj BAA91884.1	37% 33% 35% 52% 29%	139 139 139 154 196	609 609 480 306 582
HEOQP44	942596	2203	HMMER 2.1.1	PFAM: Beta-lactamase	PF00144	420.7	250	1026
HEOQS11	965930	2204	blastx.14	ORF1A [Homo sapiens]	gi 475909 emb CAA47472.1	51%	30	152
HEORE79	959572	2214	blastx.14	rehydrin [Tortula ruralis]	gi 1732471 gb AAB49656.1	53% 46% 50% 50% 55% 55% 42% 62% 62%	101 101 232 284 58 180 223 58 180	145 145 267 325 84 206 264 81 203 325

HHECO01	915285	2250	blastx.14	(AF039691) antigen NY-CO-9 [Homo sapiens]	gi 3170182 gb AAC18040.1	65%	302	174
HHEEC07	952455	2267	blastx.14	(AF064257) Dhml-like protein [Homo sapiens]	gi 5881961 gb AAD55138.1 AF064257.1	100%	25	2
HHEHU73	923895	2279	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	99%	1202	1801
						100%	1862	1912
HHEJH30	961974	2282	blastx.14	(AF180920) cyclin ania-6a [Homo sapiens]	gi 5823554 gb AAD53184.1 AF180920.1	4.1	115	156
HHEND45	919630	2302	HMMER 1.8	PFAM: Double-stranded RNA binding motif	PF00035	95%	25	114
			blastx.14	[D.melanogaster mRNA, complete cds.], gene product [Drosophila melanogaster]	gi 158506 gb AAA73062.1	12.86	1	114
HHEQK01	871911	2346	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	52%	235	297
						47%		
HHEQV39	932851	2354	HMMER 1.8	PFAM: Src homology domain 3	PF00018	3.27	64	90
HHESU85	783820	2381	HMMER 1.8	PFAM: Heat shock hsp90 proteins	PF00183	30.41	526	708
HHETQ54	908567	2392	HMMER 2.1.1	PFAM: KRAB box	PF01352	11.81	88	288
			blastx.14	NK10 [Mus musculus]		166.4	233	421
						89%	212	448
HHEUA62	965709	2400	HMMER 1.8	PFAM: Spectrin alpha chain, repeated domain	gi 506502 emb CAA56225.1	10.48	103	186
			blastx.14	(AB023622) Septin6 [Mus musculus]	PF00435	59%	13	144
					gi 5689158 dbj BAA82838.1	60%	211	315

HHEUC31	795268	2401	HMMER 2.1.1	PFAM: Ank repeat	PF000023	31.5	3	92
HKBAT27	963724	2486	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF000099	2.17	11	37
HLMBW11	950728	2526	blastx.14	(AF156884) RIP-like kinase [Homo sapiens]	gi 5059425 gb AAD3 9005.1 AF156884.1	92%	129	782
HLMBY16	531053	2529	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	1.99	82	123
HLMDU71	531228	2572	HMMER 2.1.1	PFAM: Phosphate- binding protein	PF01449	48.1	1	123
HLMFU09	909666	2600	blastx.14	(AF151363) Cdc42 GTPase-activating protein [Mus musculus]	gi 5020264 gb AAD3 8043.1 AF151363.1	78%	277	372
HLMHP67	967636	2633	blastx.14	Hypothetical bacteriophage n4 receptor protein NfrA precursor. [Escherichia coli]	gi 1651236 dbj BAA3 5202.1	82% 100%	107 3	340 104
HLMHT94	531054	2641	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF000099	2.86	264	284
HLMIX95	960056	2679	blastx.14	(AB008430) CDEP [Homo sapiens]	gi 2766165 dbj BAA2 4267.1	89% 69%	440 47	330 9
HLMMA52	920292	2694	blastx.14	ORF-3 protein [Pseudorabies virus]	gi 334072 gb AAA47 471.1	43% 100% 70%	115 165 174	162 176 203
HLMMD05	932127	2697	blastx.14	collagen [Ascaris suum]	gi 159657 gb AAA29 371.1	50% 61% 44% 58% 63% 50%	189 355 189 107 349 387	124 317 115 72 317 352

HLMMV66	926188	2733	HMMER 1.8 blastx.14	PFAM: Ank repeat similar to HUMORFU (D26069) [Homo sapiens]		PF00023	42% 50% 46% 46% 32% 46%	358 407 355 110 189 355	317 366 317 66 115 317
HLMNL55	964739	2769	blastx.14	dynein heavy chain isotype 6 [Tripneustes gratilla]		gi 687206 gb AAA63 589.1	62% 81% 86% 71% 39% 43%	230 337 404 378 173 99	382 384 448 419 256 146
HLMNN02	920296	2776	blastx.14	(AF083501) latent nuclear antigen [Macaca mulatta rhadinovirus 17577]		gi 4494984 gb AAD2 1406.1	36% 53% 50% 33%	345 191 86 306	289 153 57 208
HL YAA41	909874	2871	HMMER 2.1.1	PFAM: PH domain		PF00169	37.3	162	260
HL YDL60	909866	2980	blastx.14	ORF-3 protein [Pseudorabies virus]		gi 334072 gb AAA47 471.1	44% 37% 35% 30% 39% 75% 47% 75%	89 229 376 259 283 179 232 26	15 158 293 191 215 156 182 3

HL YDS11	966732	2986	blastx.14	orfIV [Borna disease virus]		gi 473842 gb AAA20666.1	38%	250	197
HL YDT68	526245	2991	HMMER 1.8	PFAM: Zinc finger, C2H2 type		PF000096	39%	200	161
HL YDV62	927872	2993	HMMER 2.1.1	PFAM: PH domain		PF00169	4.11	89	124
			blastx.2	(AC005490) unknown protein [Arabidopsis thaliana]		gb AAC35236.1	41%	113	292
HL YEN93	682176	3005	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain		PF00130	38%	451	504
HL YGP46	832311	3042	HMMER 2.1.1	PFAM: IQ calmodulin-binding motif		PF00612	2.86	383	409
HL YHN67	920551	3056	blastx.14	EDTP(egg derived tyrosine phosphatase).		sp BAA33720 BAA33720	24.4	12	74
HMAAF10	968199	3062	blastx.14	Formate c-acetyltransferase (EC 2.3.1.54). [Escherichia coli]		gi 1651427 dbj BAA35638.1	65%	1	234
							47%	264	314
							100%	1	300
							76%	347	385
HMABJ56	907640	3063	HMMER 2.1.1	PFAM: ADP-riboseylation factor family		PF00025	24.8	157	231
			blastx.14	(AF082517) ADP-riboseylation factor [Entamoeba histolytica]		gi 3746799 gb AAC64063.1	39%	281	403
							56%	154	228
							61%	233	271
HMA BQ71	729831	3065	HMMER 2.1.1	PFAM: DNA topoisomerase II (N-terminal region)		PF00204	128.8	210	407

HMAADC02	920088	3067	blastx.14	ORF_f418 [Escherichia coli]	gi 536985 gb AAA97040.1	95%	202	143
HMAZ55	939916	3071	blastx.2	(AK002022) unnamed protein product [Homo sapiens]	dbj BAA92041.1	98%	270	728
HMAFY42	778521	3078	HMMER 2.1.1	PFAM: WH1 domain	PF00568	90	46	303
HMAKG69	723186	3080	HMMER 1.8	PFAM: Signal C terminal domain	PF00512	40.87	31	405
HMAIC22	947905	3085	HMMER 2.1.1	PFAM: Peptidase family M3	PF01432	65.9	115	402
			blastx.14	CG Site No. 18031 [Escherichia coli]	gi 466635 gb AAB18474.1	84% 100% 55%	112 2 363	390 112 422
HMAKA11	966282	9569	blastx.14	MaoB [Escherichia coli]	gi 1480003 dbj BAA11058.1	99% 90% 50%	1516 1673 1587	803 1545 1474
HMALL66	956195	3091	HMMER 1.8	PFAM: Adenylate kinases	PF00406	50.17	63	296
HMCND22	895981	3107	blastx.2	(AJ007798) stromal antigen 3, (STAG3) [Homo sapiens]	emb CAB59367.1	82% 90% 71%	85 445 10	456 573 168
HMCFB22	963794	3110	blastx.14	probable transposase - human transposon MER37	pir S72481 S72481	73% 82% 43% 61% 63%	183 119 313 5 90	320 187 423 5 122
HMCY77	753133	3117	HMMER 2.1.1	PFAM: Kelch motif	PF01344	51.9	7	132
HMMAB49	462502	3127	HMMER	PFAM: Zinc-binding	PF00099	3.49	166	183

HMMAC19	953580	3129	1.8 blastx.14	metalloprotease domain (AF003535) ORF2-like protein [Homo sapiens]	gi 2197085 gb AAD0 4635.1		47% 47% 87%	26 282 187	145 344 210
HMMCH04	944069	3208	blastx.2	unknown [Homo sapiens]	gb AAC50940.1		58%	423	680
HMQBU96	765162	3247	HMMER 1.8	PFAM: Helix-loop-helix DNA-binding domain	PF00010		7.33	8	40
HMQDZ19	940694	3267	blastx.14	urokinase plasminogen activator receptor [Homo sapiens]	gi 433901 emb CAA5 2191.1		100% 91%	89 133	124 168
HMSBV28	970579	3303	blastx.14	YKL249 [Saccharomyces cerevisiae]	gi 871536 emb CAA4 9304.1		92% 51% 50%	260 141 323	108 1 282
HMSCD15	918133	3310	HMMER 1.8 blastx.2	PFAM: Src homology domain 3	PF00018		41.06	453	599
HMSFR69	738588	3373	HMMER 1.8	(AK000975) unnamed protein product [Homo sapiens]	dbj BAA91451.1		98% 29% 28%	453 387 80	635 479 175
HMSG127	855759	9573	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125		7.78	258	202
HMSGP73	925385	3401	blastx.14	PFAM: Bacterial muT protein	PF00293		5.56	276	202
HMSGX14	871492	3413	HMMER 1.8	(AC004490) R29381_1 [Homo sapiens]	gi 2995577 gb AAC0 8316.1		94% 95%	141 901	908 972
HMSHO64	746582	3431	HMMER 1.8 blastx.2	PFAM: Ribosomal protein S12	PF00164		33.44	28	153
				PFAM: Src homology domain 3	PF00018		11.08	316	405
				(AF030131) Plenty of SH3s; POSH [Mus]	gb AAC40070.1		47%	1	411

HMSHZ56	733386	3447	HMMER 1.8	musculus] PFAM: Zinc finger, CCHC class	PF00098	4.89	208	228
HMSJT11	965007	3491	blastx.14	(AF148805) latent nuclear antigen [Kaposi sarcoma- associated herpesvirus]	gi5669894 gb AAD4 6501.1 AF148805_6	20%	667	1137
						24%	241	465
						21%	241	465
						23%	211	453
						16%	139	465
HMSJW19	744990	3498	HMMER 2.1.1	PFAM: BAH domain	PF01426	48.7	2	163
HMSKI08	959413	3509	blastx.14	(AF094516) E1-like protein [Homo sapiens]	gi3820614 gb AAC6 9630.1]	97%	97	513
HMSOM08	958216	3538	blastx.14	(AF082556) TRF1- interacting ankyrin-related ADP-ribose polymerase [Homo sapiens]	gi3929219 gb AAC7 9841.1]	76%	2	232
HMSOU92	948130	9578	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAAF22026.1 AF1 18094_21	64%	302	463
						63%	462	527
						88%	532	558
HMSOX47	948202	3548	blastx.14	cDNA EST EMBL:M89462 comes from this gene; cDNA EST 1.1 yk34947.5 comes from this gene; cDNA EST yk35899.5 comes from this	gi3879085 emb CAA 94301.1]	48%	514	612
						39%	365	463
						36%	266	355
						39%	173	256
						26%	514	591
HMVDU16	904807	3589	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	13.38	1252	1329
HMWCQ09	924634	3606	blastx.14	Emf1 alpha [lphydata muelleri]	gi9300 emb CAA494 72.1]	50%	19	84
						33%	99	233
						66%	217	243

HMWDD54	932261	3610	blastx.14	(AF175223) SANT domain protein SMRTER [Drosophila melanogaster]	gi 5815245 gb AAD52614.1 AF175223_1	38%	292	345
HMWDF88	906769	3612	HMMER 1.8	PFAM: Low-density lipoprotein receptor domain class A (AF110520) NG29 [Mus musculus]	PF00057	41.61	171	245
HMWGG55	920575	3642	blastx.14	DNA polymerase [Pyrococcus furiosus]	gi 4050096 gb AAC97969.1	69% 48% 35% 50%	114 129 9 72	239 239 110 107
HMWGT07	953454	3645	blastx.14	protein [Arabidopsis thaliana]	gi 216918 dbj BAA02362.1 gi 4972120 emb CAB43977.1	40% 40% 46%	218 395 113	322 475 157
HMWHN70	851334	3654	HMMER 1.8	PFAM: Zinc finger, C3HC4 type (RING finger)	PF00097	6.51	187	255
HNEBJ08	958742	3689	blastx.14	mucin 2 precursor, intestinal - human (fragments)	pit A49963 A43932	35% 83%	305 320	264 303
HNEDU01	909832	3748	blastx.14	(AC002398) F25965_3 [Homo sapiens]	gi 2477513 gb AAB81198.1	71% 57% 62% 43% 50%	207 80 1 323 337	323 205 87 412 384
HNFEF95	971171	3792	blastx.14	ORF_0493 [Escherichia coli]	gi 606260 gb AAA58123.1	98% 89% 81%	548 103 185	201 20 105
HNFFM25	705856	3818	HMMER	PFAM: Laminin B	PF00052	0.47	520	603

HNFFT62	574623	3828	1.8	(Domain IV) PFAM: C2 domain	PF00168	2.74	207	272
HNFGI01	921431	3851	blastx.14	(AF118890) s-tomosyn isoform [Rattus norvegicus]	gi 4689231 gb AAD2 7819.1 AF118890_1	86% 100% 40%	234 153 287	302 200 361
HNFGI49	909707	3852	blastx.14	(AF086624) serine threonine kinase [Rattus norvegicus]	gi 380869 gb AAC6 8900.1	100% 100%	1 60	45 86
HNFGM76	908665	3862	HMMER 2.1.1 blastx.2	PFAM: Zinc finger, C2H2 type	PF00096	74.8	232	306
HNFHA11	967520	3874	HMMER 2.1.1 blastx.14	(AF132599) RANTES factor of late activated T lymphocytes-1 [Homo sapiens]	gb AAD26864.1 AF1 32599_1	92%	1	417
HNFKH77	576186	3890	HMMER 2.1.1 blastx.14	PFAM: Phosphoenolpyruvate carboxykinase [Escherichia coli]	PF01293	118.1	55	219
HNHFHQ01	938114	3897	HMMER 2.1.1 blastx.14	PFAM: Aldehyde dehydrogenase family serine/threonine kinase with SH3 domain, leucine 1	gi 606337 gb AAA58 200.1	99%	55	360
HNFW14	939763	3908	HMMER 2.1.1	PFAM: Larophilin/CL-1- like GPS domain	PF00171	30.2	231	326
					gi 758593 emb CAA8 8531.1	28% 46% 46% 25% 41%	248 43 371 79 176	331 81 415 186 211
					PF01825	35.1	44	196

			blastx.2	(AF166382) serpentine receptor [Mus musculus]	gb AAF00617.1 AF166382.1	44%	38	283
HNF1G07	918389	3921	blastx.14	(AF128881) P13 kinase regulatory subunit P101 [Homo sapiens]	gb 4928058 gb AAD33397.1 AF128881.1	80% 60%	2 448	445 477
HNF1P50	965283	3936	blastx.14	mutant sterol regulatory element binding protein-2	gi 841318 gb AAA85718.1	65% 34% 85%	356 42 665	631 128 685
HNGAL92	953889	3976	blastx.14	phosphatidylserine decarboxylase [Escherichia coli]	gi 551827 gb AAA83896.1	73%	212	18
HNGAS51	773208	3984	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF000099	2.57	144	182
HNGBF80	574475	4001	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF000096	4.98	88	111
HNGBH77	577361	4005	HMMER 1.8	PFAM: ATP synthase A chain	PF00119	9.81	130	189
HNGCE85	970738	4039	blastx.14	hypothetical protein Tigger 2 - human transposon MER37.1	pir S72489 S72489	72% 63%	284 212	210 180
HNGCX07	953900	4065	HMMER 1.8	PFAM: Src homology domain 3	PF00018	3.68	45	161
HNGEN37	663955	4160	HMMER 2.1.1	PFAM: Indole-3-glycerol phosphate synthases	PF00218	125.4	2	223
HNGEQ07	953647	4169	HMMER 1.8	PFAM: TPR Domain	PF00515	10.86	164	238
HNGER43	699391	4173	HMMER 1.8	PFAM: Bacterial mutT protein	PF00293	3.79	151	195
HNGER96	922996	4177	blastx.14	Bkm-like protein [Drosophila melanogaster]	gi 552132 gb AAA28872.1	60% 64%	250 250	294 291

HNGEW76	572874	4198	HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	64% 75% 80% 4.66	250 215 28 194	291 250 250 247
HNGEX35	959230	4200	blastx.14	adenine phosphoribosyltransferase [Escherichia coli]	gjl1773151 gb AAB4 0223.1	98%	205	366
HNGEX95	572897	4202	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	5.32	196	219
HNGFG22	573084	4224	HMMER 1.8	PFAM: Bacterial regulatory proteins, luxR family	PF00196	9.2	166	240
HNGFG69	926873	4227	blastx.14	collagen [Ascaris suum]	gjl159657 gb AAA29 371.1	44% 40% 40% 40% 50% 86.07	228 145 145 307 67 445	175 80 80 248 38 654
HNGFK28	544726	4234	HMMER 1.8	PFAM: ABC transporters	PF00005	100% 86%	1 654	651 989
HNGFK28	566798	9584	HMMER 1.8	MsbA protein. [Escherichia coli] PFAM: ABC transporters	dbj BAA35658.1 PF00005	86.07	445	654
HNGFK28	943114	9585	HMMER 1.8	MsbA protein. [Escherichia coli] PFAM: ABC transporters	dbj BAA35658.1 PF00005	100% 100% 117.67	1 654 342	651 989 1
			blastx.2	MsbA protein.	dbj BAA35658.1	100%	165	503

[illegible]

HNGGH78	924908	4306	blastx.14	type VII collagen [Crictetus griseus]	gi388625 gb AAA36 968.1	75% 66% 66% 60%	152 155 155 193	129 129 129 164
						50% 34% 42% 40% 50% 58% 38% 41% 50%	356 47 285 288 171 171 6 53 171	397 115 341 347 206 206 59 103 206
HNGGM10	964819	4317	HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00052	0.51	424	441
HNGGR74	765698	4340	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	6.36	14	58
HNGHT06	935706	4450	blastx.14	unknown protein [Homo sapiens]	gi1196398 gb AAA8 8020.1	50%	254	177
HNGHJ01	916748	4483	blastx.14	ORF2 [Rattus norvegicus]	gi56588 emb CAA37 645.1	50% 57% 57%	168 280 73	293 342 114
HNGKE07	952221	4630	blastx.14	collagen type VII [Homo sapiens]	gi495866 gb AAA58 965.1	58% 55% 47% 64% 57% 32% 33% 62%	336 93 155 327 266 87 81 355	286 40 105 286 225 13 1 332
HNGLE52	835972	4662	HMMER	PFAM:	PF00049	6.75	286	318

			1.8	Insulin/GP/Relaxin family				
HNGLG06	839088	4666	HMMER 1.8	PFAM: ABC transporters	PF000005	47.92	348	599
			blastx.2	Hypothetical protein HI0658 [Escherichia coli]	dbj BAA35501.1	99%	270	665
HNGLH82	954140	4668	blastx.14	diaminopimelate decarboxylase [Escherichia coli]	gi 455170 gb AAA83861.1	98%	416	249
						71%	193	47
HNGMM87	806036	4715	HMMER 1.8	PFAM: ATP synthase A chain	PF00119	63%	258	136
						8.41	237	362
HNGO22	953888	4762	blastx.14	(AE000449) putative xylanase [Escherichia coli]	gi 1790156 gb AAC76742.1	94%	104	3
						91%	151	116
HNHAI11	967668	4790	blastx.14	p15E carboxyterminal sequence [Kirsten murine sarcoma virus]	gi 4469304 emb CAA25493.1	38%	262	161
						28%	406	323
HNHBE19	724404	4798	HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	53%	310	272
						4.4	113	145
HNHBY45	774280	4823	HMMER 1.8	PFAM: ATP synthase A chain	PF00119	8.4	228	347
HNHDM74	506621	4878	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	1.89	395	427
HNHDY50	924211	4910	blastx.14	unknown protein [Homo sapiens]	gi 1196398 gb AAA88020.1	50%	33	170
						44%	23	169
HNHJE85	964882	4955	blastx.14	synexin - bovine (fragment)	pir A27695 A27695	41%	6	164
						54%	47	15
						46%	91	53

HNHET25	953410	5002	blastx.14	(A005562) SPR2D protein [Mus musculus]	gi 3093363 emb CAA06591.1	40%	114	85
						38%	91	53
HNHFA11	967126	5030	blastx.14	(AF144054) apoptosis related protein APR-4 [Homo sapiens]	gi 4868437 gb AAD31316.1 AF144054.1	32%	347	246
						43%	250	203
						46%	207	169
HNHGD07	953416	5121	blastx.14	(AF053091) eyelid [Drosophila melanogaster]	gi 2981221 gb AAC06254.1	52%	212	355
						35%	342	401
						46%	164	241
						55%	227	280
						33%	295	384
						30%	259	384
						50%	346	381
						36%	268	333
						26%	259	384
						62%	367	390
						42%	322	378
						62%	367	390
						83%	367	384
HNHGE09	939727	5127	blastx.2	IDN4-CGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	81%	2	112
HNHGH20	959499	5146	blastx.14	notch4 [Homo sapiens]	gi 1841543 gb AAC63097.1	43%	56	9
						77%	154	128
						33%	256	167
						33%	297	244
HNHGV22	674653	5189	HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	62%	131	108
						4.66	94	138
HNHHI10	964659	5251	blastx.14	ORF1 [Rattus norvegicus]	gi 56587 emb CAA37644.1	56%	75	28
						34%	157	71

HNHHL74	765598	5266	HMMER 1.8	PFAM: Bacterial mutT protein	PF00293	33% 63%	220 187	158 155
HNHIA95	908419	5318	HMMER 2.1.1	PFAM: gag gene protein p24 (core nucleocapsid protein)	PF00607	3.57	83	148
HNHHPH29	934456	5496	blastx.14	(AF118275) atrophin-related protein ARP [Homo sapiens]	gi4680231 gb AAD27584.1 AF118275_1	67.6	49	300
HOIAE91	935322	5497	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	60% 45% 70% 50% 47%	363 14 91 262 310	407 73 120 297 360
HSATQ28	866951	5512	HMMER 1.8	PFAM: Ubiquitin carboxyl-terminal hydrolases family 2	PF00442	2.66	200	235
HSAYN79	471037	5646	HMMER 1.8	PFAM: RNA recognition motif (aka RRM, RBD, or RNP domain)	PF00076	11.1	90	122
HSYBL15	660053	5682	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	4.12	360	380
HSYDP04	970789	5686	blastx.14	(AF113615) FH1/FH2 domain-containing protein FHOS [Homo sapiens]	gi5106956 gb AAD39906.1 AF113615_1	22.31	2	70
HT3SA07	954360	5702	blastx.14	ORF2 contains a reverse transcriptase domain; ORF2 [Homo sapiens]	gi339771 gb AAA51622.1	100% 50% 47%	77 408 393	394 467 443
HT4GJ85	909971	5714	HMMER	PFAM: PH (pleckstrin	PF00169	50% 54%	83 47	178 79
						11.11	365	451

			1.8 blastx.14	homology) domain (AF053974) SWAP-70 [Mus musculus]	gi 3290154 gb AAC4 0155.1	53% 88% 33%	251 4 448	448 54 492
HT3EA69	952359	5721	blastx.14	(AL032624) cDNA EST yk321h8.5 comes from this gene; 1 from this gene [Caenorhabditis elegans]	gi 3881086 emb CAA 21522.1	37% 30%	264 123	479 251
HTAAW46	719422	5735	HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505	5.82	6	35
HTABG87	940153	5745	HMMER 1.8 blastx.14	PFAM: Eukaryotic protein kinase domain (AF006064) protein kinase homolog [Fowlpox virus]	PF00069 gi 2393890 gb AAC5 8236.1	13.81 54% 33%	240 8 189	335 139 356
HTACW17	961560	5760	blastx.14	(AC007660) unknown protein [Arabidopsis thaliana]	gi 4895220 gb AAD3 2806.1 AC007660_7	37% 61%	54 212	221 265
HTAFE69	944409	5797	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	69%	432	704
HTAHL45	908949	5817	HMMER 2.1.1 blastx.14	PFAM: SCAN domain (AC004522) Zn-finger- like protein, similar to Z98745 (PID:g2924250) [Homo sapiens]	PF02023 gi 3006231 gb AAC0 9486.1	228.7 65% 36%	268 220 529	555 534 642
HTAHV04	926747	5826	blastx.14	(AC005757) R32611_1 [Homo sapiens]	gi 3688089 gb AAC6 2258.1	100%	3	446
HTAJN08	958057	5841	HMMER	PFAM: Helicases	PF00271	5.49	20	55

			1.8	conserved C-terminal domain				
HTDAE43	971582	9597	blastx.14	(AF144054) apoptosis related protein APR-4 [Homo sapiens] PFAM: RhoGAP domain	gi 4868437 gb AAD31316.1 AF144054_1	53%	526	296
HTGCH58	909849	5895	HMMER 2.1.1 blastx.14	carboxyl terminus of the predicted protein shows 1 comes from this gene; cDNA EST EMBL:D32994 comes from this gene	PF00620	91.4	420	797
HTGDM65	967158	5918	blastx.14	SH3 domain binding protein [Rattus norvegicus]	gi 3874826 emb CAA86318.1	37% 44% 61%	420 657 771	605 758 809
HTGDT91	974962	5921	HMMER 2.1.1 blastx.14	PFAM: SpoU rRNA Methylase family alternate gene name yibK [Escherichia coli]	gi 1185397 gb AAA87791.1	39% 50% 39% 47% 39% 28% 40%	127 186 278 186 278 337 260	59 139 210 136 210 263 195
HTGDW96	967030	5926	HMMER 2.1.1 blastx.14	PFAM: Domain of unknown function (AL034490) similar to yeast ngg1-interacting factor 3	PF00588	107.6	315	638
					gi 466744 gb AAB18583.1	100% 100% 76% 81% 130.2	315 531 457 497 334	467 638 495 529 711
					gi 4008560 emb CAA22481.1	60% 43% 37%	1087 460 385	1275 660 513

			[Schizosaccharomyces pombe]			61%	361	414
HTGEL46	685425	5936	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	58%	1312	1347
HTGEQ11	967047	5944	HMMER 2.1.1 blastx.14	PFAM: Cytosol aminopeptidase family	PF00883	191	27	305
				aminopeptidase A [Escherichia coli]	gi 1054725 emb CAA60164.1	95%	27	305
						83%	320	391
						88%	1	27
HTGER72	683469	5949	HMMER 1.8	PFAM: Src homology domain 3	PF00018	2.4	174	203
HTGFZ03	923443	5968	HMMER 2.1.1 blastx.14	PFAM: RNA polymerase beta subunit	PF00562	30.7	21	110
				(AF025424) RNA polymerase I 127 kDa subunit [Rattus norvegicus]	gi 2739048 gb AAB94600.1	76%	3	275
HTGGL23	974590	5973	blastx.14	(AE000218) putative adhesion and penetration protein [Escherichia coli]	gi 1787452 gb AAC74286.1	87%	3	443
HTHCB68	660309	5996	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	3	162	209
HTJAB35	880424	9601	HMMER 1.8	PFAM: Ank repeat	PF00023	35.64	242	325
HTJMT23	948518	6056	blastx.14	(AF182426) arylacetamide deacetylase [Rattus norvegicus]	gi 5923874 gb AAD56394.1 AF182426_1	58%	2	160
HTOAK34	966800	6081	HMMER	PFAM: Eukaryotic protein	PF00069	32.41	1020	1190

			1.8	kinase domain (AF084205) serine/threonine protein kinase TAO1 [Rattus norvegicus] PFAM: RasGEF domain	gi 3452473 gb AAC7 1014.1	75%	954	1190
HTODG16	909952	6108	HMMER 2.1.1 blastx.14	PFAM: RasGEF domain	PF00617	148.5	4	402
HTOFT34	527144	6146	HMMER 1.8	CDC25 [Saccharomyces kluyveri] PFAM: Phorbol esters / diacylglycerol binding domain	gi 171187 gb AAA34 479.1 PF00130	34% 4.53	13 235	399 264
HTOHL35	537364	6173	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	6.52	4	33
HTOIY09	836003	6201	HMMER 1.8	PFAM: Insulin/IGF/Relaxin family	PF00049	7.08	61	123
HTSHF47	720403	6229	HMMER 1.8	PFAM: Helix-loop-helix DNA-binding domain	PF00010	7.82	105	140
HTSHM38	972248	6230	HMMER 2.1.1 blastx.14	PFAM: EGF-like domain	PF00008	72	299	406
				(AB011532) MEGF6 [Rattus norvegicus]	gi 3449294 dbj BAA3 2462.1	88% 50% 53% 42% 42% 43% 40% 46% 70% 66%	287 278 320 299 287 290 341 287 114 413	538 460 466 460 427 427 481 415 173 457

50%	467	532
61%	245	283
35%	188	280
47%	482	538
52%	245	295
39%	476	544
61%	245	283
31%	188	283
50%	245	286
29%	170	280
55%	230	283
69%	245	283
53%	245	283
50%	485	532
35%	452	535
47%	482	532
47%	482	532
50%	245	304
31%	299	412
70%	251	280
58%	251	286
30%	434	532
58%	245	280
53%	245	283
37%	245	316
63%	317	349
75%	245	268
47%	245	295
37%	251	322
54%	251	283
31%	320	406

[illegible]

HTWCG65	869547	6260	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	60%	251	280
HTWEY30	918641	6299	blastx.14	(AF036548) RGC-32 [Rattus norvegicus]	gi 3800742 gb AAC6 8839.1	15.45	220	306
HTWJA59	812705	6314	HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	88%	613	434
HTXCY84	924996	6359	HMMER 2.1.1	PFAM: Aldehyde dehydrogenase family	PF00171	4.95	172	219
HTXDW14	966588	6366	blastx.14	(AF038838) proline dehydrogenase [Klebsiella aerogenes]	gi 2766693 gb AAB9 5478.1	23.9	104	217
HTXDX61	784768	6367	HMMER 2.1.1	(AB029335) HrPET-3 [Halocynthia roretzi]	gi 5360271 dbj BAA8 1908.1	78% 45% 41%	47 16 20	241 48 70
HTXFN69	869397	6394	HMMER 1.8	PFAM: Amidase	PF01425	54% 45%	869 773	777 663
HTXGL73	529745	6403	HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505	123.2	61	330
HTXJ168	912611	6420	blastx.14	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	6.76	72	137
HTXJM73	783572	6425	HMMER 1.8	RAB14 [Rattus norvegicus]	gi 206535 gb AAA41 994.1	2.21	144	176
HTXKQ55	947789	6453	HMMER 2.1.1	PFAM: Bacterial muT protein	PF00293	97% 60% 59% 52%	230 367 482 373	370 450 547 429
				PFAM: Peptidase family M3	PF01432	2.87	97	123
						50.1	3	299

			blastx.14	mitochondrial intermediate peptidase precursor [Homo sapiens]	gi 1763642 gb AAC51231.1	96% 100%	3 335	302 367
HTXNY74	918076	6525	blastx.14	(AF078856) p47 [Homo sapiens]	gi 5531827 gb AAD44488.1	89% 96%	93 2	530 94
HTXPT68	870074	6555	HMMER 2.1.1	PFAM: NOL1/NOP2/sun family	PF011189	43.1	29	196
HTXQC36	961161	6560	blastx.14	(AB012223) ORF2 [Canis familiaris]	gi 2981631 dbj BAA25253.1	51% 57% 60% 42%	9 326 145 170	143 382 174 247
HTXRM86	975072	6575	HMMER 2.1.1	PFAM: Prokaryotic DNA topoisomerase	PF011131	99	243	446
			blastx.14	DNA topoisomerase III (EC 5.99.1.-) [Escherichia coli]	gi 1742870 dbj BAA15551.1	51% 40%	177 3	440 158
HTXSB88	914627	6577	blastx.14	(AF077042) 30S ribosomal protein S7 homolog [Homo sapiens]	gi 4689132 gb AAD27775.1 AF077042_1	84%	559	771
HTXSR92	973095	6579	blastx.2	(AB016962) synGAP-b1 [Rattus norvegicus]	dbj BAA74972.1	60% 55%	302 1	421 60
HUIAM39	911399	6586	blastx.14	(AF051325) SH3 domain containing adaptor protein [Homo sapiens]	gi 4091782 gb AAC99298.1	46% 32%	170 709	310 885
HUJCM08	957784	6589	blastx.14	(AF015950) telomerase reverse transcriptase [Homo sapiens]	gi 2330017 gb AAC51672.1	100%	2	244
HUUA06	966816	6597	blastx.14	(AF151854) CGI-96 protein [Homo sapiens]	gi 4929661 gb AAD34091.1 AF151854_1	88% 100% 68% 36%	595 464 537 561	521 396 481 487

HWAAF66	908541	6612	HMMER 2.1.1 blastx.14	PFAM: KRAB box repressor protein [Homo sapiens]	PF01352	65.3	90	278
HWAAU03	923734	6619	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	gi 2789430 dbj BAA2 4380.1 PF00130	54% 2.21	60 332	212 373
HWACA38	943074	6637	HMMER 1.8 blastx.14	PFAM: Bacterial mutT protein (AL033536) predicted using GeneFinder, similar to 111 elegans]	PF00293	3.68	344	376
HWADF26	957347	6656	HMMER 1.8	PFAM: Lectin C-type domain short and long forms	gi 3947651 emb CAA 22138.1 PF00059	39% 52% 104.26	251 766 859	433 834 509
HW/AEN20	868490	6691	HMMER 1.8 blastx.2	(AF175206) lectin-like receptor F1 [Homo sapiens] PFAM: Zinc finger, C2H2 type	gb AAAF37804.1 AF1 75206_1 PF00096	100% 6.01	3 251	596 313
HW/AFW39	947915	6697	HMMER 2.1.1 blastx.2	PFAM: Peptidase family M1 (AF106037) adipocyte- derived leucine aminopeptidase [Homo sapiens]	PF01433 gb AAAF07395.1 AF1 06037_1	79.5 96%	200 200	367 367
HW/AFX39	907631	6698	HMMER 2.1.1 blastx.14	Zn-binding protein [Pleurodeles waltl] PFAM: Plexin repeat	gi 213868 gb AAA449 614.1 PF01437	46% 50% 25.8	118 19 898	354 120 1035
HW/AGM33	888685	6710	HMMER 2.1.1					

HWAGX37	959586	6711	blastx.14	unknown protein [Homo sapiens]	gi 1196433 gb AAA88038.1	47%	215	283
HW/HH10	960646	6714	blastx.14	retinoid X receptor interacting protein [Mus musculus]	gi 709961 gb AAC52167.1	62%	1215	383
						66%	513	343
						45%	642	412
						44%	1272	1198
						66%	1824	1798
HW/HS94	909667	6715	blastx.14	(AF151363) Cdc42 GTPase-activating protein [Mus musculus]	gi 5020264 gb AAD38043.1 AF151363.1	63%	278	484
HW/BAL44	959449	6720	blastx.14	(AF151877) CGI-119 protein [Homo sapiens]	gi 4929707 gb AAD34114.1 AF151877.1	75%	487	510
HW/BAQ16	868363	6722	HMMER 1.8	PFAM: RNA recognition motif (aka RRM, RBD, or RNP domain)	PF00076	4.8	857	898
HW/BBR65	747723	6741	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	4.15	185	205
HW/BDM24	963498	6771	blastx.14	(AJ388555) hypothetical protein [Canis familiaris]	gi 5441611 emb CAB46854.1	83%	908	997
						100%	990	1040
HW/BEX27	682583	6785	HMMER 1.8	PFAM: Helix-loop-helix DNA-binding domain	PF00010	88%	837	863
						38.64	184	336
HY/AAF33	915050	6820	blastx.14	(AF121858) sorting nexin 8 [Homo sapiens]	gi 4689256 gb AAD27831.1 AF121858.1	81%	273	434
						96%	217	306
						36%	172	270
HY/AA08	926017	6831	blastx.14	ORF-3 protein [Pseudorabies virus]	gi 334072 gb AAA47471.1	62%	203	156
						34%	84	7
						36%	125	69
						63%	150	118

HYABP53	971448	6848	HMMER 2.1.1	PFAM: Immunoglobulin domain	PF00047	37%	282	211
HYABB43	800006	6860	HMMER 2.1.1 blastx.2	PFAM: Alpha-2- macroglobulin family alpha-2-macroglobulin [Mus musculus]	PF00207	90.9	206	27
HYAAU65	909956	6863	HMMER 2.1.1	PFAM: RasGEF domain	gb AAA39508.1	67%	263	36
HWBEG18	909798	6883	HMMER 2.1.1 blastx.14	PFAM: EF hand	PF00617	47	2	112
					PF00036	33.3	505	591
				(AF106071) ras activator RasGRP [Homo sapiens]	gi 4038292 gb AAC9 7349.1	71% 59% 46% 70% 48% 66%	698 382 103 604 2 619	889 597 420 684 142 654
HWBCS08	909031	6897	HMMER 2.1.1 blastx.14	PFAM: B-box zinc finger.	PF00643	32.5	263	388
				(AF119043) transcriptional intermediary factor 1 gamma; TIF1 gamma [Homo sapiens]	gi 4325109 gb AAD1 7259.1	92%	2	562
HWBAQ71	944080	6918	blastx.2	predicted using Genefinder [Caenorhabditis elegans]	emb CAA97423.1	34%	141	464
HWAFG12	969605	6934	blastx.14	(AF071081) proline-rich mucin homolog [Mycobacterium tuberculosis]	gi 5305335 gb AAD4 1594.1 AF071081.1	34% 50% 28% 40%	112 195 398 365	17 142 264 300

HWAFA47	948858	6938	blastx.2	(AF010144) neuronal thread protein AD7c-NTP [Homo sapiens]	gb AAC08737.1	34%	219	142
						44%	154	101
						32%	374	300
						34%	365	297
						34%	332	264
						63%	338	306
						29%	365	294
						38%	314	261
						59%	208	14
						50%	178	14
HWAEU35	887166	6942	HMMER 2.1.1 blastx	PFAM: Immunoglobulin domain CMRF-35 antigen [Homo sapiens]	PF00047	40%	253	80
						77%	78	13
						52%	93	25
						76%	249	211
						42%	221	165
						75%	240	205
						42%	237	160
						90%	357	328
						25%	248	168
						23.2	40	273
HWAEG71	931547	6946	HMMER 1.8 blastx.2	PFAM: Ras family (contains ATP/GTP binding P-loop) rab-related GTP-binding protein [Rattus	PF00071	55%	7	162
						59%	169	279
						60%	400	474
						38%	346	399
						42%	316	372
						147.95	116	475
						98%	86	493
						80%	477	569
						gb AAA42000.1		

HW/AEC08	958115	6947	HMMER 2.1.1 blastx.14	norvegicus] PFAM: Spectrin repeat (AL080133) hypothetical protein [Homo sapiens]	PF00435		29.5	3	215
					gi 5262574 emb CAB 45729.1		69%	12	209
							70%	381	452
							31%	18	209
							29%	228	308
HW/ACY70	756888	6956	HMMER 2.1.1	PFAM: RIO1/ZK632.3/MJ0444 family	PF01163		96	280	552
HW/ABG11	949088	6971	HMMER 2.1.1 blastx.2	PFAM: Glucosamine-6- phosphate isomerase unnamed protein product [unidentified]	PF01182		225.7	67	381
					emb CAA03416.1		91%	67	480
HUUDR34	944903	6984	blastx.14	similar to SH3-binding protein [Homo sapiens]	gi 4826478 emb CAB 42896.1		82%	2	550
							100%	571	594
							77%	552	578
							100%	596	616
HUUC102	940813	6986	blastx.14	(AF132984) nuclear pore complex interacting protein NP1P [Homo sapiens]	gi 4959568 gb AAD3 4394.1 AF132984_1		99%	770	417
							89%	417	250
							71%	300	187
							58%	226	119
							87%	278	231
							100%	261	226
							54%	261	196
							60%	258	199
							81%	181	149
							83%	152	117
							40%	229	149
							100%	152	126
							90%	192	163

HTXOOI5	869261	7011	HMMER 2.1.1	PFAM: Ubiquitin family	PF00240	66%	300	274
HTXL-S08	938357	7023	blastx.14	(AF090989) high-risk human papilloma viruses E6 1 alpha [Homo sapiens]	gi 4151328 gb AAD1 2543.1	48% 68% 41% 57% 70% 27%	745 1006 1 511 427 580	987 1146 237 645 477 645
HTWKB07	952841	7085	blastx.14	(AF003535) ORF2-like protein [Homo sapiens]	gi 2197085 gb AAD0 4635.1	60% 75% 50% 33% 70%	25 259 205 36 167	84 294 258 116 196
HTWJH08	790185	7087	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	61%	197	51
HTWJH08	846554	9615	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	61%	197	51
HTWJF50	911448	7089	blastx.14	myosin I [Rattus norvegicus]	gi 3724141 emb CAA 50871.1	48% 53% 55% 46% 39% 50%	1009 334 732 863 40 686	1428 681 851 1012 108 715
HTWJFQ19	586124	7091	HMMER 2.1.1	PFAM: Sema domain	PF01403	62.9	14	184
HTOLA82	844319	7198	HMMER 1.8	PFAM: Zinc-binding metallopeptidase domain	PF00099	4.25	50	82
HTOHI14	659280	7204	HMMER	PFAM: Asparaginase	PF01112	20.7	140	217

HTODM08	960113	7222	2.1.1 blastx.14	(AF106069) deubiquitinating enzyme [Homo sapiens]	gi 5814097 gb AAD5 2099.1 AF106069_1	33%	5	367
HTHBV73	946168	7282	blastx.2	(AK001868) unnamed protein product [Homo sapiens] PFAM: SET domain	dbj BAA91951.1	52% 45%	4 162	183 332
HTGEX10	963862	7305	HMMER 2.1.1 blastx.14	PFAM: SET domain	PF00856	105.2	580	960
HTGEA37	908606	7311	blastx.14	(AC005065) determined by GENSCAN prediction and 1	gi 4153862 gb AAD0 4721.1	65% 40%	601 337	1017 477
HTAIF22	910040	7364	HMMER 2.1.1 blastx.14	(AF001293) aiolos [Mus musculus] PFAM: RhoGEF domain	gi 2150044 gb AAB5 8795.1 PF00621	80%	1	216
HTAIF11	965738	7365	blastx.14	(AL022271) similar to Guanine nucleotide exchange 1.1.1 this g	gi 3876654 emb CAA 18349.1	64%	281	397
HTAEV23	959129	7369	HMMER 2.1.1 blastx.14	(AF061555) ubiquitin- protein ligase E3-alpha [Mus musculus] PFAM: WW domain	gi 3170887 gb AAC4 0165.1 PF00397	48% 50%	6 297	293 392
HTAEP05	932459	7370	blastx.14	This gene is novel. [Homo sapiens] Pro-Pol-dUTPase polyprotein [Mus musculus]	gi 603953 dbj BAA07 893.1 gi 2063210 emb CAA 73251.1	89%	823	359
						76% 48% 47% 44%	225 406 3 500	275 510 59 553

HTABK47	720684	7379	HMMER 2.1.1	PFAM: Monooxygenase	PF01360		77%	386	412
HSYCV01	940661	7408	HMMER 1.8	PFAM: Hydroxymethylglutaryl- coenzyme A reductase	PF00369		23.3	371	430
HSAWR08	959943	7458	blastx.14	(AL110271) hypothetical protein [Homo sapiens]	gi 5817084 emb CAB 53709.1		7.29	448	492
HSAUL84	908440	7504	HMMER 2.1.1	PFAM: gag gene protein p24 (core nucleocapsid protein)	PF00607		98%	123	287
			blastx.14				43.3	105	302
HNHOF94	948720	7551	blastx.2	gag protein [Human endogenous retrovirus K1 (AK000496) unnamed protein product [Homo sapiens]	gi 1780975 emb CAA 71418.1 dbj BAA91205.1		83% 60%	135 24	299 152
HNHNP81	928378	7554	HMMER 1.8	PFAM: 7 transmembrane receptor (rhodopsin family)	PF00001		67%	176	484
			blastx.2				58.09	233	511
			blastx.2	(AF091575) olfactory receptor [Rattus norvegicus]	gb AAC64595.1		61% 52%	236 502	505 618
HNHLC01	915363	7581	blastx.14	unknown protein [Homo sapiens]	gi 1196431 gb AAA8 8036.1		46% 40% 36% 61%	5 57 133 219	82 131 207 257
HNHGV62	743400	7603	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1		46% 62% 76%	260 52 287	304 285 349

HNHGE31	698046	7624	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF000099	3.3	83	109
HNHFV49	975415	7644	blastx.2	hypothetical protein (L1H 3' region) - human	pir B34087 B34087	81% 71% 90%	483 227 217	190 6 188
HNHFH24	903741	7657	HMMER 2.1.1	PFAM: Sodium:neurotransmitter symporter family	PF00209	37.2	208	306
			blastx.14	(AF075266) orphan transporter isoform B9 [Mus musculus]	gi 3347930 gb AAC2 7761.1	76% 27%	187 414	327 467
HNHDF07	953883	7702	HMMER 1.8	PFAM: Fibronectin type III domain	PF00041	7.48	242	319
HNHDC29	904546	7704	blastx.14	contactin associated protein [Homo sapiens]	gi 1857708 gb AAB4 8481.1	98%	219	7
HNHIC32	861673	7716	HMMER 1.8	PFAM: 7 transmembrane receptor (rhodopsin family)	PF00001	133.17	195	545
			blastx.2	(AF112461) G protein- coupled receptor 57 [Homo sapiens]	gb AAAF27279.1 AF1 12461.1	100% 100% 100%	189 112 56	551 186 112
HNHIC32	956105	9645	HMMER 1.8	PFAM: 7 transmembrane receptor (rhodopsin family)	PF00001	133.17	951	601
			blastx.2	(AF112461) G protein- coupled receptor 57 [Homo sapiens]	gb AAAF27279.1 AF1 12461.1	100% 100% 100%	555 478 422	917 552 478
HNHBF47	949027	7731	HMMER 1.8	PFAM: Cadherin	PF00028	44.76	668	522
			blastx.2	(AB028499) Flamingo 1	db BAA84070.1	96%	409	666

[Mus musculus]				92%	5	259
				91%	666	923
				86%	243	398
				42%	412	660
				36%	370	660
				36%	412	660
				43%	669	896
				33%	355	699
				43%	666	884
				39%	648	890
				38%	20	247
				32%	11	253
				30%	361	648
				36%	14	235
				39%	654	884
				37%	14	247
				35%	26	247
				35%	666	878
				32%	412	699
				37%	672	854
				28%	433	708
				40%	270	380
				35%	270	380
				37%	270	398
				44%	270	371
				38%	270	371
				33%	264	362
				32%	683	829
				29%	2	262
				57%	723	764
				35%	270	374

HNHAF61	742116	7745	HMMER 1.8 blastx.2	PFAM: Cadherin (AF152473) protocadherin alpha C1 short form protein [Homo sapiens]	PF00028		39%	412	480
							46.67	330	461
HNHAF61	955094	9649	blastx.14	(AF152303) protocadherin alpha C1 [Homo sapiens]	gb AAD43734.1 AF1 52473_1		75%	81	677
							84%	173	364
HNHAF61	955094	9649	blastx.14	(AF152303) protocadherin alpha C1 [Homo sapiens]	gb AAD43734.1 AF1 52473_1		33%	87	686
							93%	1	84
HNHAF61	955094	9649	blastx.14	(AF152303) protocadherin alpha C1 [Homo sapiens]	gb AAD43734.1 AF1 52473_1		40%	10	75
							98%	325	1071
HNHAF61	955094	9649	blastx.14	(AF152303) protocadherin alpha C1 [Homo sapiens]	gb AAD43734.1 AF1 52473_1		40%	715	987
							42%	499	660
HNHAF61	955094	9649	blastx.14	(AF152303) protocadherin alpha C1 [Homo sapiens]	gb AAD43734.1 AF1 52473_1		32%	778	1023
							37%	724	867
HNHAF61	955094	9649	blastx.14	(AF152303) protocadherin alpha C1 [Homo sapiens]	gb AAD43734.1 AF1 52473_1		100%	225	275
							77%	176	229
HNHAF61	955094	9649	blastx.14	(AF152303) protocadherin alpha C1 [Homo sapiens]	gb AAD43734.1 AF1 52473_1		30%	496	684
							89%	269	325
HNHAF61	955094	9649	blastx.14	(AF152303) protocadherin alpha C1 [Homo sapiens]	gb AAD43734.1 AF1 52473_1		35%	895	1011
							40%	568	663
HNHAF61	955094	9649	blastx.14	(AF152303) protocadherin alpha C1 [Homo sapiens]	gb AAD43734.1 AF1 52473_1		36%	717	791
							50%	499	540
HNGOZ40	969158	7757	blastx.14	(AF155098) NY-REN-8 antigen [Homo sapiens]	gi 5360091 gb AAD4 2864.1 AF155098_1		78%	599	477
HNGNY02	918626	7769	HMMER 1.8	PFAM: FAD/NAD- binding domain in oxidoreductases	PF00175		4.43	366	440
HNGND01	915294	7778	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130		2.07	464	490
HNGMW65	950173	7781	blastx.2	(AF010144) neuronal thread protein AD7c-NTP	gb AAC08737.1		62%	340	143
							67%	340	248

HNGMD48	974358	7788	HMMER 1.8	[Homo sapiens] PFAM: Cystatin domain	PF00031	45% 60% 55% 68% 43% 43% 55% 64% 57% 47%	417 345 80 81 200 111 414 205 392 202 86	247 247 3 25 111 346 152 351 125 18
HNGLY08	948825	7791	blastx.14	(AJ010949) calcium channel alpha-2-delta-C subunit [Mus musculus]	gi 4186073 emb CAA 09423.1	79%	219	392
HNGLL07	952236	7795	blastx.14	KERATIN TYPE II CYTOSKELETAL 8 (FRAGMENT).	sp Q29386 Q29386	41% 71% 83% 72%	199 43 77 242	77 2 42 210
HNGKM74	942758	7801	HMMER 1.8 blastx.2	PFAM: HMG (high mobility group) box (AL117470) hypothetical protein [Homo sapiens]	PF00505 emb CAB55945.1	5.95 40%	437 2	526 817
HNGIR10	964715	7837	blastx.14	NK10 [Mus musculus]	gi 506502 emb CAA5 6225.1	61% 62% 54% 52% 54% 53% 50% 44%	196 193 199 196 193 199 193 196	2 2 2 2 2 2 2 8

HNGFF50	941480	7879	blastx.14	(AJ010949) calcium channel alpha-2-delta-C subunit [Mus musculus]	gi 4186073 emb CAA-09423.1	45% 61% 57% 37% 26% 39% 46% 50% 33% 30%	193 199 196 178 217 115 181 232 309 306	2 92 83 11 2 2 104 197 256 238
HNGEO79	951489	7897	HMMER 1.8 blastx	PFAM: IG (immunoglobulin) superfamily (AF143185) high affinity immunoglobulin gamma Fc 1	PF00047 gb AAD34946.1 AF143185_1	33.71% 54% 41% 77% 36%	290 287 404 230 140	466 385 520 283 214
HNGEI11	967314	7902	blastx.14	pol polyprotein [Baboon endogenous virus]	gi 509838 gb AAA87332.1	70% 42% 53%	258 39 324	317 152 368
HNGDM11	967512	7933	blastx.14	reverse transcriptase [Homo sapiens]	gi 439877 gb AAB02291.1	36% 50% 47% 20%	381 276 154 210	292 205 104 82
HNGDA08	959964	7952	HMMER 1.8	PFAM: Zinc finger, CCHC class	PF00098	5.01	261	284
HNGAZ08	959977	7973	blastx.14	p40 [Homo sapiens]	gi 2072966 gb AAC51272.1	45% 40%	391 93	320 19

HNFD11	966347	7997	blastx.14	(AF132948) CGI-14 protein [Homo sapiens]	gi 4680667 gb AAD27723.1 AF132948_1		40%	144	100
HNFR56	733297	8003	HMMER 1.8	PFAM: IG (immunoglobulin) superfamily	PF00047		35%	316	266
HNED077	955894	8051	blastx.14	(AB020063) Keap1 [Mus musculus]	gi 3894323 dbj BAA34639.1		100%	14	115
HNBJ81	529571	8067	HMMER 2.1.1	PFAM: N-acetyltransferase	PF00797		2.96	200	150
HMWEN61	909931	8125	blastx.14	(AF020313) proline-rich protein 48 [Mus musculus]	gi 2624972 gb AAB94880.1		90%	384	64
HMWBT59	893995	8141	HMMER 1.8	PFAM: 4 transmembrane segments integral membrane proteins	PF00335		44%	387	91
HMSMN71	927097	8184	HMMER 1.8	PFAM: Ubiquitin family	PF00240		42%	420	91
HMSJL53	921263	8196	blastx.14	(AF176069) ubiquitin [Homo sapiens]	gi 5733824 gb AAD49751.1 AF176069_1		38%	339	91
				decorin (P[Gli]) [Mus musculus]	gi 53669 emb CAA37876.1		44%	387	232
							100%	79	44
							27%	402	316
							85%	360	340
							40.5	18	125
							84%	89	307
							100%	89	9
							27.49	51	113
							32.11	24	200
							78%	3	518
							63%	550	606
							53%	550	594
							36%	281	403
							46%	48	131
							35%	134	244

HMSHE81	784966	8218	HMMER 2.1.1	PFAM: PX domain	PF00787	29.1	128	421
HMSDL70	909997	8240	blastx.14	(AF083331) kinesin-like protein KIF1B [Rattus norvegicus]	gi 3493139 gb AAC3 3292.1	100%	2	103
HMSBO95	796724	8258	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.61	273	302
HMMBL55	731523	8320	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.03	227	271
HMMAT08	959005	8327	blastx.14	DOCK180 protein [Homo sapiens]	gi 1339910 dbj BAA0 9454.1	49% 66%	137 310	301 426
HMCHZ77	771795	8350	HMMER 2.1.1	PFAM: Nucleoside transporter	PF01733	81.6	5	283
HMALZ77	856266	8362	HMMER 2.1.1	PFAM: Isochorismatase family	PF00857	88.5	2	232
HMAIL09	950168	8365	HMMER 1.8	PFAM: ADP-glucose pyrophosphorylase	PF00483	150.92	20	256
HMAIQ20	669436	8367	blastx.14	t270 [Escherichia coli]	gi 290545 gb AAA62 048.1	100% 100%	254 468	469 512
HMAIH15	956705	8368	HMMER 1.8	PFAM: Bacterial muT protein	PF00293	3.43	172	234
HMAIA55	899404	8369	blastx.2	Hypothetical protein M10456 [Escherichia coli]	dbj BAA35499.1	100%	3	203
HMAIF74	944465	8377	blastx.2	(AF027204) putative tetraspan transmembrane protein L6H [Homo sapiens]	gb AAAB82947.1	35% 39%	188 601	532 789
			HMMER 2.1.1	PFAM: Leucine Rich Repeat	PF00560	42.8	369	440

				blastx.2	leucine-rich repeat protein [Arabidopsis thaliana]	emb CAA76000.1	34%	294	674
HMACV54	922354	8379		HMMER 2.1.1	PFAM: Aldose 1- epimerase	PF01263	116	418	176
HMABD66	388074	8381		HMMER 2.1.1	PFAM: 60kD inner membrane protein	PF02096	59.8	222	365
HLYHK61	932994	8386		blastx.14	GTP binding protein [Mus musculus]	gi 53169 emb CAA36 803.1	88% 95% 96% 82% 90%	133 489 33 723 398	420 686 131 809 487
HLYHK34	703776	8387		HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	13.18	436	519
HLYQG11	966539	8401		HMMER 1.8	PFAM: RNA recognition motif. (aka RRM, RBD, or RNP domain)	PF00076	4.45	96	134
HLYEA70	943886	8431		HMMER 2.1.1	PFAM: Dihydrodipicolinate synthetase family	PF00701	22.8	304	408
HLYCF37	949401	8459		HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	12.84	1249	1326
HLYBX91	790234	8463		HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	3.14	710	754
HLMLH66	910804	8555		HMMER 2.1.1	PFAM: Fibrinogen beta and gamma chains, C- terminal globular domain	PF00147	40.5	157	252
				blastx.14	(AF 07253) angiotensin Y1 [Homo sapiens]	gi 4378598 gb AAAD1 9608.1	65% 72% 30%	157 333 41	252 363 100
HLCD67	887375	8581		HMMER	PFAM: BTB/POZ domain	PF00651	101.9	160	504

HJPA Y56	909242	8600	2.1.1 HMMER 2.1.1 blastx.2	PFAM: Zinc finger, C2H2 type (AC004076) R30217_1 [Homo sapiens]	PF00096 gb AAB97932.1	39.9	78	146
						62%	3	212
						64%	3	206
						59%	3	200
						54%	3	206
						56%	6	206
						47%	9	212
						42%	3	233
						43%	18	212
						49%	3	191
						40%	21	212
						38%	3	206
						43%	21	191
						40%	3	212
						43%	12	212
						42%	3	149
						42%	3	149
						48%	6	161
						37%	69	212
						36%	3	149
						39%	166	234
						47%	172	234
						38%	172	234
						33%	172	234
						44%	181	234
						50%	181	234
						55%	181	234
						25%	154	234
						50%	181	234

HUPAA60	586675	8604	HMMER 2.1.1	PFAM: Adenosine/AMP deaminase	PF00962	77%	208	234
HJBC205	925805	8611	HMMER 1.8	PFAM: TPR Domain	PF00515	12.67	205	291
			blastx.14	(AF132856) suppressor of G2 allele of skp1 homolog [Homo sapiens]	gi4809026 gb AAD3 0062.1	88%	520	840
						98%	85	357
						58%	798	869
						25%	151	258
HHEZO92	942859	8638	HMMER 2.1.1	PFAM: tRNA synthetase class II (G, H, P, S and T)	PF00587	59.7	94	450
			blastx.14	(AC002131) Similar to seryl-tRNA synthetase 1 [Arabidopsis thaliana]	gi3157938 gb AAC1 7621.1	62%	97	306
						47%	325	507
HHEWX06	933879	8643	blastx.14	ORF 3 [Rattus norvegicus]	gi57053 emb CAA29 033.1	32%	38	241
HHEPG59	925436	8681	blastx.14	IP63 protein [Rattus norvegicus]	gi2764951 emb CAA 67705.1	53%	5	43
						58%	251	66
						52%	541	440
						50%	346	257
HHEMG02	917366	8704	blastx.14	similar to NIFS protein (nitrogen fixation) [Caenorhabditis elegans]	gi722379 gb AAC46 685.1	67%	525	608
						56%	441	488
						53%	641	685
HHELA35	878217	8711	HMMER 2.1.1	PFAM: Beta-lactamase	PF00144	175.4	118	450
HHEKZ12	878267	8712	HMMER 1.8	PFAM: Beta-lactamases	PF00144	132.1	102	380
HHEAJ78	773538	8739	HMMER	PFAM: Helicases	PF00271	3.92	2	82

HHEAA02	932265	8743	1.8	conserved C-terminal domain The ha1438 gene product is related to a C728 protein 1	gi559715 dbj BAA07556.1	87%	53	445
HFSAG03	960973	8761	HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	6.39	454	365
HEOOA49	942561	8765	HMMER 2.1.1 blastx.2	PFAM: FAD binding domain Aip2p [Saccharomyces cerevisiae]	PF01565	115.8	1	201
HEONO59	741361	8768	HMMER 2.1.1 blastx.2	PFAM: Fibronectin type III domain (AF117210) host cell factor 2 [Homo sapiens]	PF00041	39.4	508	582
HEONL09	961147	8771	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4 alpha-3 type IX collagen [Homo sapiens]	PF00125	9.17	96	152
HEOMX01	913683	8778	blastx.14		gi1196421 gb AAC41947.1	40%	349	480
						36%	328	468
						31%	325	468
						27%	316	513
						32%	331	468

HDTJF05	931977	8804	blastx.14	polyprotein [Hepatitis C virus]	gi 464178 dbj BAA03581.1	34%	328	468
						61%	241	279
						35%	328	411
						41%	337	408
						77%	241	267
						63%	241	273
						58%	244	279
						66%	306	332
						35%	185	244
						28%	394	468
						53%	394	438
						47%	168	218
						50%	49	90
						60%	208	237
						75%	258	281
HDTIO74	933606	8805	blastx.14	(AL021749) protein phosphatase 2C-like protein [Arabidopsis thaliana]	gi 2842482 emb CAA16879.1	45%	148	5
HDTIO16	934151	8806	HMMER 2.1.1 blastx.14	PFAM: WD domain, G-beta repeat (AF072880) SOCS box-containing WD protein SW/Ip-1 [Homo sapiens]	PF00400	117.6	164	283
						99%	2	613
						85%	610	672
						70%	686	715
HDTDP02	919572	8831	blastx.14	(AF151872) CGI-114 protein [Homo sapiens]	gi 4929697 gb AAD34109.1 AF151872.1	76%	135	212
HDTDD72	587710	8836	HMMER 1.8	PFAM: ATP synthase A chain	PF00119	85.33	165	350
HDTDB37	587699	8844	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.43	201	218
HDTCC55	934923	8846	blastx.14	(AL117483) hypothetical	gi 5911963 emb CAB	46%	306	389

HDTBD67	899636	8860	HMMER 1.8	protein [Homo sapiens] PFAM: Laminin G domain	55956.1]	46% 35% 42%	453 4 105	542 105 167
HDTBD67	902517	9731	HMMER 1.8	PFAM: Laminin G domain	PF00054	53.09	615	1004
HDTAA31	937609	8871	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	53.23	278	667
HDTAA31	941948	9732	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	12.8	1331	1408
HDPXN01	915919	8899	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	12.8	1331	1408
HDPUN39	957580	8916	HMMER 2.1.1	PFAM: HECT-domain (ubiquitin-transferase).	PF00632	4.29	99	146
			blastx.14	hypothetical protein 2 - human (fragment)	pir B38919 B38919	197.8	1783	1067
HDPB10	961309	8928	HMMER 2.1.1 blastx.2	PFAM: Zinc finger, C2H2 type	PF00096	66%	1723	1070
				(AF091457) zinc finger protein RIN ZF [Rattus norvegicus]	gb AAD22522.1 AF0 91457_1	32.9	67	135
						61%	1	252
HDPBR24	914667	8932	blastx.14	(AF086837) snapin [Homo sapiens]	gi 4206088 gb AAD1 1417.1]	98%	144	410
HDPBR04	909040	8934	HMMER 2.1.1 blastx.2	PFAM: Zinc finger, C2H2 type	PF00096	52.4	192	263
				zinc finger protein ZNF132 [Homo sapiens]	gb AAC50252.1]	40% 36% 46% 47%	12 12 335 335	377 377 553 553

				47%	335	538
				35%	18	377
				34%	12	377
				41%	335	574
				34%	12	377
				38%	335	574
				31%	12	377
				44%	335	538
				28%	12	377
				43%	335	553
				30%	12	377
				37%	335	574
				31%	12	377
				41%	335	553
				31%	12	377
				49%	380	538
				36%	326	556
				28%	12	377
				30%	39	371
				36%	335	553
				35%	380	571
				37%	335	517
				27%	12	377
				34%	380	553
				33%	380	538
				26%	93	371
				33%	51	194
				36%	513	611
				50%	570	611
				30%	534	611
				69%	573	611

HDPQL68	955006	8939	blastx.14	(AC007258) Putative ATPase [Arabidopsis thaliana]				30%	534	611
								46%	573	611
								46%	573	611
								60%	582	611
								27%	513	599
								34%	303	365
								30%	513	611
								45%	292	354
								46%	573	611
								40%	327	371
								45%	544	576
								45%	544	576
								42%	200	490
								41%	530	646
HDPQF03	923120	8941	blastx.14	mitogen-activated protein kinase kinase (EC 2.7.-.-) 1		gi 5080816 gb AAD3 9325.1 AC007258_14		60%	523	582
						pir JE0363 JE0363		54%	155	187
								85%	700	83
								54%	771	700
								100%	803	774
								66%	823	788
HDPLT62	973945	8959	HMMER 1.8	PFAM: Neurotransmitter- gated ion-channel		PF00065		102.12	417	746
			blastx	GABA receptor rho-3 subunit precursor [Rattus norvegicus]		dbj BAA09322.1		78%	414	797
								92%	262	411
HDPGS45	921381	8989	blastx.14	(AC004893) similar to NEDD-4 (KIA0093); similar to P46934 (PID:g1171682) [Homo sapiens]		gi 3694664 gb AAC6 2434.1		87%	366	226
HDPGS16	909833	8991	HMMER	PFAM: Protein kinase C		PF00433		57.51	287	445

			1.8	terminal domain (AJ245709) Akt-3 protein [Homo sapiens]	emb CAB5537.1			
HDPFZ70	709684	9003	blastx.2	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	100%	236	460
HDPFB03	936331	9015	HMMER 1.8	(AF043726) PHD-finger protein [Mus musculus]	gi 4529845 gb AAD2 1792.1	100%	3	116
HDPDD12	970592	9017	blastx.14	(AF000998) CLOCK [Mus musculus]	gi 2114488 gb AAC5 3200.1	13.5	662	745
HDPDM62	454740	9031	HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00052	38%	341	553
HCWKR86	784705	9089	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	86%	284	370
HCWFA35	908820	9114	HMMER 1.8	PFAM: DnaI, prokaryotic heat shock protein	PF00226	2.03	152	208
			blastx.14	Curved DNA-binding protein cbpA [Escherichia coli]	gi 1651491 dbj BAA3 6142.1	2.26	296	340
HCUGN19	716989	9181	HMMER 1.8	PFAM: Alcohol/other dehydrogenases, short chain type	PF00106	116.61	80	274
HCUGL20	668913	9184	HMMER 1.8	PFAM: Ank repeat	PF00023	98%	68	364
HCENG10	848225	9310	HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505	8.05	98	151
HCFMZ90	922112	9315	HMMER 1.8	PFAM: Beta-ketoacyl synthases	PF00109	7.2	190	261
			blastx.14	(AF021234) 3-oxoacyl- [acyl-carrier-protein]- synthase [Neurospora]	gi 2522482 gb AAB8 1078.1	6.03	305	376
						194.57	291	872
						57%	465	824
						56%	255	494
						41%	91	306

HCFMW71	920506	9316	HMMER 2.1.1	crassa PFAM: Isopenicillin- diphosphate delta- isomerase	PF01772	55.5	198	362
HCFMJ37	955281	9321	blastx.14	homologue of yeast IPP isomerase [Homo sapiens]	gi 488750 emb CAA3 4890.1	42%	198	407
HCFMG23	850426	9337	blastx.2	(AF161445) HSPC327 [Homo sapiens]	gb AAAF29005.1 AF1 61445_1	62% 89% 95% 100%	95 203 18 610	199
HBTAE84	781946	9355	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	10.89	179	244
HBMTB85	923730	9390	HMMER 1.8	PFAM: ATPases associated with various cellular activities (AAA)	PF00004	20.81	122	232
HBMDF89	912789	9415	blastx.14	(AF093403) 2-amino-3- ketobutyrate-coenzyme A ligase [Mus musculus]	gi 4093159 gb AAC9 9774.1	93% 100% 100%	3 261 217	182 317 258
HBJNB52	726475	9423	blastx.14	Rab24 protein [Mus musculus]	gi 438164 emb CAA8 0472.1	95% 89%	287 96	412 152
HBJLR37	849633	9437	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	3.77	193	252
HBJLR31	900883	9438	HMMER 2.1.1	PFAM: Ribosomal protein S26e	PF01283	232.2	2	325
HBJJX53	835733	9452	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	90	798	866
			blastx.2	(AF185576) POZ/zinc finger transcription factor ODA-8 [Mus musculus]	gb AAAF03152.1 AF1 85576_1	68% 33% 36%	606 618 66	953 893 185
			HMMER	PFAM: IG	PF00047	9.2	157	207

			1.8	(immunoglobulin) superfamily				
			blastx.2	(AF161081) activatory receptor PIRIIBeta [Homo sapiens]				
HB/JT12	894345	9453	HMMER 2.1.1	PFAM: Homeobox domain	gb AAD52965.1 AF1 61081_1	90% 73%	157 215	216 283
HB/JH60	930448	9461	HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00046	64	201	371
HB/JHX73	971377	9466	HMMER 1.8	PFAM: Laminin G domain	PF00052	1.57	181	204
			blastx.14	contactin associated protein [Homo sapiens]	PF00054	13.48	931	1005
HB/JGT03	923800	9472	HMMER 1.8	PFAM: Cyclic nucleotide- binding domain	gi 1857708 gb AAB4 8481.1	50% 59% 33% 42% 43%	451 880 349 985 916	876 975 447 1041 963
HB/JFC23	423885	9484	HMMER 2.1.1	PFAM: WD domain, G- beta repeat	PF00400	32.1	135	251
HB/JAB15	660552	9522	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.72	145	171
HBDAD64	864344	9524	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	3.09	423	443
HBCCJ05	930956	9527	blastx.14	(AF164612) Gag protein [Homo sapiens]	gi 5802816 gb AAD5 1794.1 AF164612.1	48% 47%	444 536	277 486
HBCBN51	952057	9532	HMMER 2.1.1	PFAM: alpha/beta hydrolase fold	PF00561	43.4	358	564
			blastx.14	similar to alpha/beta	gi 3878848 emb CAB	40%	741	1007

[053] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1A. The second column provides the unique contig identifier, "Contig ID:" which allows correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

[054] The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1A, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than $1.0e-07$, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a percent identity in Column 7. The percent

identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[055] The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1A) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[056] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[057] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1A.

[058] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[059] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[060] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

RACE Protocol For Recovery of Full-Length Genes

[061] Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation. The following briefly describes a modification of this original 5' RACE procedure. Poly A+ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromide-agarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

- [062] Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., *Nucleic Acids Res.*, 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.
- [063] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

- [064] Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., *Nucleic Acids Res.*, 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This method starts with total RNA isolated from the desired source, poly A RNA may be

used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase, if used, is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the immune/hematopoietic antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant immune/hematopoietic antigen.

[065] The present invention also relates to vectors or plasmids which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1A (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion

thereof) described in, for example Tables 1A or 2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[066] Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[067] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res.* 16:7583-7600 (1988); Altling-Mees, M. A. and Short, J. M., *Nucleic Acids Res.* 17:9494 (1989)) and pBK (Altling-Mees, M. A. et al., *Strategies* 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[068] Vectors pSport1, pCMVSPORT 1.0, pCMVSPORT 2.0 and pCMVSPORT 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus* 15:59- (1993). Vector lacmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR[®]2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res.* 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology* 9: (1991).

[069] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed

sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[070] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of immune/hematopoietic associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[071] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[072] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[073] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, *Gene* 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for example, antibodies of the invention raised against the immune/hematopoietic polypeptides of the present invention in methods which are well known in the art.

[074] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, a polypeptide encoded by the cDNA contained in Clone ID NO:Z, and/or the polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, a polypeptide encoded by the cDNA contained in Clone ID NO:Z and/or a polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[075] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in Table 1B column 6, or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic

acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[076] Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[077] Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (See Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[078] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the

invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. In preferred embodiments, the polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, wherein sequentially delineated sequences in the table (i.e. corresponding to those exons located closest to each other) are directly contiguous in a 5' to 3' orientation. In further embodiments, above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[079] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1B, column 2) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[080] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to

the same Clone ID NO:Z (see Table 1B, column 1), and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same Clone ID NO:Z. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[081] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same row of column 6 of Table 1B. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[082] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[083] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower

stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[084] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[085] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides, are also encompassed by the invention.

[086] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10

polynucleotides of another sequence in column 6 are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[087] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same Clone ID NO:Z (see Table 1B, column 1) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[088] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one sequence in column 6 corresponding to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[089] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of

one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same row are directly contiguous. In preferred embodiments, the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B is directly contiguous with the 5' 10 polynucleotides of the next sequential exon delineated in Table 1B, column 6. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[090] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1A, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b; where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3 (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten; or more of the available material having the accession numbers identified in the sixth column of this Table (including for

example, the actual sequence contained in an identified BAC clone). In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

Clone ID NO.: Z	SEQ ID NO	Contig ID:	EST Disclaimer Range of a Range of b	Accession #'s
HAMHB21	11	901376	1 - 3744 15 - 3758	A1760827, AW408019, A1253155, AB409366, AI356482, AA814034, AW075920, AW407984, A1760691, AA251937, A1766650, AA352825, AA243541, AI934100, AA352840, H72208, H72106, AW193021, AL035530, AL035530, and AL035530.
HASAX16	12	573692	1 - 305 15 - 319	AI356513, AI356513, AI356513, AI358796, and AI358796.
HASAY74	13	526312	1 - 375 15 - 389	AC006479, AC006479, AC006479, AC006479, and AC006479.
HASAY89	14	958768	1 - 849 15 - 863	A1240823, AC012580, AC012580, AC012580, AL133502, and AL133502.
HASAY94	15	521835	1 - 89 15 - 103	AL133216, AC024998, AC024998, AL1365438, AL1365438, AL390122, AL133216, AL133216, AL133216, AC022702, AC022702, AC025796, AC025796, AF198096, AF198096, and AF198096.
HBCAL36	16	931477	1 - 553 15 - 567	AB08374.
HBCAL39	17	964871	1 - 587 15 - 601	AL117337, AF205588, AL022345, AL022345, AL161931, AL161931, AL161931, AL134975, AL134975, AL134975, AL135583, AL135583, AL135583, AL023808, AL023808, AF205588, AF205588, AF205588, AL117337, and AL117337.
HBCAM74	18	864366	1 - 437 15 - 451	AA642815.
HBCAR79	19	573989	1 - 415 15 - 429	AC021215.
HBCAS69	20	669802	1 - 274 15 - 288	AI150061, AA382210, AC011448, and AC011448.
HBCAT17	21	503573	1 - 385 15 - 399	AI114447, AL133243, AL133243, AL133243, and AL133243.
HBCAT63	22	573993	1 - 224 15 - 238	AI114447, AL133243, AL133243, AL133243, and AL133243.
HBCBM52	23	932514	1 - 657 15 - 671	AB023431, AC005954, AC005954, AC005954, and AC0068475.
HBCBX12	24	861018	1 - 219 15 - 233	
HBCBZ05	25	927800	1 - 713 15 - 727	
HBDAC79	26	935414	1 - 612 15 - 626	AA904376, H23157, AA663798, AA359944, AA448036, R61429, H09004, AA309011, AF126245, AP001785, and AP001785.
HBDAD04	27	614849	1 - 375 15 - 389	AI057188, AW273323, C15735, AP932257, AI028587, AJ940493, AW043720, AW021811, AA858079, AW197210, AT91278, AA508647, C15853, AA181800, AW043729, AW008982, AI918922, AI985340, AA031428, AA282285, AC007392, Z82198, AI031121, AI121840, L24095, AC004882, AC002070, AC008984, AL132985, AL049781, Z72006, AC005881, AI079305, AP000263, AC005888, AC003080, AC004935, AL035667, AC005610, AP000036, AC005186, AC004842, AL035696, AC003661, AC009263, AL025581, AC003099, U41096, AL021368, AP000567, AC004933, AC003975, AP000494, AL008638, AF015262, AL049833, AL034350, AL031010, AJ229043, AP001069, AC006288, AL049561, AL024507, AP000100, AC005792, AP000566, AL023283, 2011594, AC006377.

HBDAF51	28	725481	1-496	15-510	AL031684, AC008014, AP001038, AF064864, AP001037, AF165176, AC005993, AP001043, AL078602, AC007073, AL133512, AC005367, AC007751, AC004850, AC006928, AC009028, Z83823, AC003089, AL008715, AC007372, AL049837, AL078612, AF124730, AC006032, AF207955, AC008154, AL021395, AC005076, AC005886, AC008072, AC005036, AC004783, AC004002, AC006256, AL133485, AC006353, AC002485, AF205890, AC004106, AC004169, Z74696, AC006263, AC006384, AC006972, AL031767, AC006368, AC004158, and Z95152.
HBDAF51	28	725481	1-496	15-510	N47629.
HBDAF61	29	864338	1-794	15-808	AC003963.
HBAB59	30	557972	1-425	15-439	
HBAC23	31	529753	1-234	15-248	AA313748, AC008013, AC006432, and Z61963.
HBAG72	32	722723	1-504	15-518	
HBAA91	33	677597	1-307	15-321	
HBAA75	34	953840	1-301	15-315	AL133163.
HBAAJ85	35	675904	1-105	15-119	AC002450.
HBAAV57	36	527998	1-387	15-401	AC004976.
HBAAV76	37	527908	1-286	15-300	
HBAAV91	38	828026	1-276	15-290	
HBABM14	39	781398	1-306	15-320	
HBABR94	40	527903	1-331	15-345	
HBABU55	41	527112	1-349	15-363	
HBBCD43	42	714390	1-187	15-201	
HBBCD88	43	697628	1-446	15-460	
HBBC168	44	823468	1-216	15-230	
HBBCO81	45	527111	1-290	15-304	
HBBCR51	46	847946	1-327	15-341	AA766781, and AA352756.
HBBCR90	47	527702	1-318	15-332	
HBBDL73	48	531104	1-218	15-232	
HBBDN14	49	856216	1-401	15-415	AL117593, and AC007401.
HBBD070	50	752830	1-523	15-537	AA249870, and AF205935.
HBBDP32	51	573846	1-263	15-277	
HBBDP41	52	494836	1-374	15-388	
HBBDQ75	53	847935	1-516	15-530	
HBBDT05	54	932302	1-86	15-100	
HBBDT47	55	573728	1-214	15-228	
HBBDW23	56	919383	1-447	15-461	AL078584.
HBBDW36	57	573847	1-498	15-512	

HB/JDX18	58	795732	1 - 544	15 - 558	T94994, and AC007546.
HB/JDX51	59	716395	1 - 391	15 - 405	
HB/JEA22	60	674872	1 - 312	15 - 326	
HB/JEA25	61	589249	1 - 498	15 - 512	AA912740, AA488771, T99916, AA370641, AA376428, AA488991, AA091598, D81695, AA305205, AA053093, A082436, AA779219, A041880, A1652229, A1216294, A1037847, AA319426, AA224141, AV392797, A1240672, AA160646, AW403677, A1037869, A1240700, AA314410, U91327, AF026293, and AF026166.
HB/JEA44	62	973376	1 - 447	15 - 461	T86098, and A1031589.
HB/JEA65	63	934994	1 - 543	15 - 557	AA385892, AA489084, D80258, D80014, T11417, D59503, D59627, D81111, D58101, D80064, C14227, D58246, C06015, C14407, A1557731, A1535686, A1557774, AA514184, T03048, D51079, D80227, AW377671, C14298, D80269, D59695, D59467, A1535959, D59979, F13647, C14014, D80133, AA809122, D51213, D80188, D80522, D80043, D80378, D45273, D59502, D52291, D80195, AA305578, C03092, C15076, D80164, D59275, D80038, C14389, C14331, D80247, D80157, D81026, D51799, D80439, D51103, H67854, D80251, D58283, D80949, AA514188, D59859, D59610, D80022, D80166, D51423, D59619, D80210, D80391, D80940, D80233, D80045, C14344, D59787, D59995, AA305409, D59551, D81030, D80212, D80268, D80366, AW367950, D80196, D51022, H67866, D80219, AW178893, D57483, D80193, D59927, D80248, D59889, D51759, D80302, AW360834, D51060, D59317, D80241, D80024, AA514186, D59474, D45260, D60214, C14973, A1525237, AW177440, D51221, T03116, D59653, C14429, AW378539, A1525917, AW360817, C75259, A1525920, D60010, C14077, AW177505, AW375405, D59373, C14957, A1525227, A1525242, AW360811, C14046, C16955, C05695, AW178907, A1525923, AW178908, D80228, A1525235, T02868, AW366296, AW178906, AW360844, Z33452, AA285331, T03269, A1525912, AW179328, T48593, Z21582, AW375406, AW378534, A1525925, A1525215, AW179332, AW377672, AW360841, AW179023, AW178905, AW177731, AW378528, AW178762, AW179019, AW378533, AW378532, AW352120, C05763, AW352117, T02974, AW377676, AW178914, C04682, AW378542, AW360855, AW178774, AW176467, N66429, D51053, AW179020, AW352171, AW178980, AW352170, D51250, AW177733, AW378525, AW179024, AW352163, A1525222, AW179018, C13958, C13458, AW178781, A1535961, A1525928, AW378543, AW177728, AW369651, AW178986, AW177456, AW178911, AW378540, Z30160, AW178775, AW178909, AW179004, AW179329, AW177905, AW178754, AW352158, A1525228, H67858, AA305720, AW177508, AW177734, AW177497, AW179012, A1910186, AW177722, A1525216, A1525238, A1535665, A1525903, AB002449, AR016808, A82595, A84916, AB028859, AR060385, A132110, AR008278, AF058696, A62300, A62298, AR018138, I14842, AR054175, I50126, I50132, I50128, I50133, AR008277, AR008281, X64588, X68127, A70867, AR0602872, I82448, I79511, AR016514, X67155, Y17187, AR060138, A45456, Y17188, A94995, D26022, A26615, AR052274, A43192, Y12724, A63261, A43190,

					AR03869, A25909, A64136, A68321, AR066488, AR088443, Y09669, AR066487, A67220, D89785, A78862, D34614, A30438, AF123263, AR016691, AR016690, U46128, D88547, AR032065, AJ000347, D50010, AR008408, and AR060133.
HBIEJ66	65	787251	1 - 161	15 - 175	
HBIEJ29	66	888625	1 - 511	15 - 525	AA360671, and AI035652.
HBIEJ30	67	931103	1 - 413	15 - 427	AA806058.
HBIEJ70	68	971161	1 - 65	15 - 79	
HBIEJ42	69	669495	1 - 410	15 - 424	
HBIEJ21	70	671201	1 - 291	15 - 305	
HBIEJ29	71	693490	1 - 411	15 - 425	AC002126.
HBIEJ83	72	847920	1 - 414	15 - 428	AA760836, and AW085046.
HBIEJ029	73	693491	1 - 323	15 - 337	
HBIEJ15	74	847843	1 - 363	15 - 377	AC005580.
HBIEJ73	75	764573	1 - 320	15 - 334	
HBIEJ19	76	953804	1 - 249	15 - 263	
HBIEJ844	77	715846	1 - 608	15 - 622	W72060, W76253, AW291566, AJ360806, AI871850, and AF086367.
HBIEJ76	78	527553	1 - 648	15 - 662	AA625290, and AJ940996.
HBIEJ94	79	794343	1 - 258	15 - 272	AI133485.
HBIEJW15	80	507534	1 - 650	15 - 664	
HBIEJ09	81	573781	1 - 276	15 - 290	
HBIEJ16	82	421567	1 - 350	15 - 364	
HBIEJ239	83	690479	1 - 320	15 - 334	
					TI1506, AA490380, AA280331, AA233664, AA233243, AA232989, N49790, AI886810, AI660641, AI707610, AA243850, AA001344, AI814340, AI718247, AA897648, AA714834, AI499266, AI190321, AI832024, AI718088, AI718693, AI014672, AI091271, AW169874, AI078790, N52465, AI245448, AA811481, AI057060, AA744777, AA642417, N49687, AA233550, and AI222478.
					AA303049, AA482928, F30630, AI915081, AA349606, AA832175, AW104788, AI962030, AA237098, H29914, AI119555, AA599423, AA878431, AI452836, AA613624, AW117860, M62259, AI659023, AA719523, AA632479, AA643770, AA632556, AI144081, AW302711, AW301906, AW302753, AI127426, AA493503, AA173342, AA664604, H69515, AI053560, N90460, AA837000, AA481887, AA804187, AA720732, H86106, AA394066, AI865807, AI701959, AA467988, AA586656, AA488051, AA992877, AA911515, AA515728, AW068316, AW188742, AI369580, AI354847, AA323085, CI16659, AA95827, F24728, R98218, AA302817, AI653776, AA492313, AC003007, AC005632, AI133163, AC007371, AC007011, AI121754, AC005011, AF001549, Z98304, AC004383, AC006312, AC005696, AC005488, AC005412, AC006088, AI049778, AC005682, AC005544, AI021937, AC006515, AI049636, AC004887,
HBIFC51	84	725818	1 - 484	15 - 498	

				AL034417, AC004796, AC004895, AL121757, AL031587, AC006141, AL1049829, AC002492, AL022345, AC012384, AC005484, AC005520, ZR83844, AR036572, U91328, AC0042302, AC004950, Z95114, AP001550, AL035079, AC004682, AL034421, AC005041, AL109627, AC002531, AC0066432, AC002310, Z95115, AC004148, AC004671, AL121603, AL121603, AF134471, Z92542, AL010598, AC005808, AL022726, AC005300, AC004584, AC005874, AF134471, AC006117, AL049776, AC005089, AC004686, AC004941, AC005037, AC005049, M63796, AF050154, S472653, AC005015, AC003043, AL033527, AC006254, AC016830, Z777249, Z95116, AC005291, AL031672, AC006530, Z86090, AC002351, AL031577, AL096712, AC004106, AC004622, AC006077, AC005902, AC006111, AC006115, AF111169, AC005881, AC003109, AC016027, AC005988, AC06208, AC007546, AC003681, Y14768, AC007035, AC005839, ALU78639, AL080243, AC010197, AC006013, AP000505, AC006112, AL020993, AC006387, AC000082, AL031005, AL035683, AL049589, Z98742, AC006241, Y18000, AC005932, AC007676, AF053356, AL022238, AC007314, AL031680, AL022238, AL033429, AC006101, AC008372, AC005377, U95742, AC005231, AL121652, AC006480, AL031118, AC002365, ZR8340, AC010170, AC007421, AP042090, AC006454, AL021940, AC009247, AC002119, AL022336, AC004815, AC007386, AC004531, Z97055, AL022302, AL022322, AP000547, AC006035, AL035405, AC004042, AC007216, L44140, AL031281-J246003, AL049874, AC007637, AC000120, Z77852, AL035530, Z83826, Z99128, AL096702, AC005305, AL121655, AC006441, AC002425, AL049843, AL031666, AL049872, AF134726, AC005562, AC007461, AC000553, AP000503, AL079342, AC004491, AC004797, Z97054, AL022320, AC005046, AC002553, AF196970, AC006121, AC005754, AC006486, AC004859, AC009069, AC005746, AL008730, AP000251, AL049697, AC006449, AC007993, Z81369, AC003093, AL021154, AF07550, AC012331, AL034451, AP000030, AP000134, AC005971, AC006011, AL133246, AL132985, AC000097, AC007878, AL079295, AL031602, Z98949, AC004694, AC005288, AC006014, AC006547, AC006539, AP000558, AC005104, AC008044, AC004837, AB018307, AC004883, AC006360, AC003950, AC007406, AL021707, AC008743, AL121658, AP000692, AL035458, AL033392, AC004254, AL034548, AC003010, Z75888, and AC004611. R94150, and T86024.	
HBJFJ53	85	573806	1-412	15-426	
HBJFK55	86	625515	1-359	15-373	
HBJFL49	87	573970	1-417	15-431	
HBJFP58	88	738298	1-92	15-106	
HBJFP07	89	953795	1-122	15-136	
HBJFV59	90	573747	1-469	15-483	
HBJFW10	91	878778	1-405	15-419	
HBJFW19	92	573765	1-339	15-353	
HBJFW20	93	573755	1-315	15-329	
HBJFW50	94	571351	1-276	15-290	
					AT62503, AU076416, AT243035, AI077308, AA700764, AA838319, AA868956, and AA187478. AL133241, and US0460. AC004692, and AL031684.

HBIFW55	95	526682	1-259	15-273	AA283995, AL478915, AA283951, AJ817564, AA283760, AA287165, AA286859, AA789104, and AC007068.
HBIFW68	96	573766	1-172	15-186	
HBIFW78	97	571347	1-380	15-394	
HBIFX57	98	573760	1-305	15-319	AL078584.
HBIFX81	99	529843	1-227	15-241	
HBIFY40	100	574095	1-450	15-464	
HBIFZ21	101	671191	1-235	15-249	
HBIFZ40	102	526679	1-437	15-451	
HBIFZ56	103	507530	1-329	15-343	
HBIFZ82	104	799685	1-325	15-339	AW005281, and AA558937.
HBJGB39	105	739095	1-551	15-565	
HBJGT72	106	957668	1-354	15-368	R50003, and R50021.
HBJGT92	107	919507	1-722	15-736	T84928.
HBJGU70	108	864063	1-474	15-488	
HBJGU78	109	920821	1-568	15-582	AI553853, AW079768, AI683616, AI536091, AI254730, AI556243, AI630887, AI829696, AI889334, AI344419, AI411027, AI391729, AI926804, AI282481, and AC004031.
HBJGV17	110	662725	1-475	15-489	
HBJGV22	111	613781	1-280	15-294	
HBJGV32	112	699075	1-377	15-391	
HBJHG04	113	836184	1-419	15-433	
HBJHG76	114	970826	1-476	15-490	AC008282.
HBJH28	115	686278	1-314	15-328	M62004, and AI035410.
HBJH44	116	621723	1-359	15-373	AA207226, AL121444, AA019182, AA333455, W96231, AA331923, H08904, AA446987, and AW167577.
HBJHM50	117	724183	1-336	15-350	
HBJHM57	118	973257	1-419	15-433	
HBJHM76	119	715512	1-324	15-338	
HBJHN52	120	726570	1-334	15-348	
HBJHO11	121	964943	1-522	15-536	AW006288, AA977097, AI368637, AW197236, AI341105, AI650705, AI816278, AI590528, and R44511.
HBJHO60	122	975186	1-395	15-409	AL121820.
HBJHR36	123	686717	1-592	15-606	AA0077952, AA482768, R96657, H79151, AW103981, AA169194, AA325699, M78177, AA626678, T69877, AA569387, AA332991, AA323749, AA326441, AA975645, AA357937.

					AL434706, AA491762, AA568331, N29941, AW419262, H92005, AI000800, AA847509, AA973803, W95976, AA650623, AA862181, W95841, N87420, AA523837, AA693370, AA446557, AA630362, R38154, AL120483, AL138455, A1865400, A1184354, A1110444, AL039958, AL1799642, N84245, R67504, Z98473, AW152064, A1051230, AA377730, AA780929, A1056964, AW338754, AA563818, AA587604, A1348611, N22424, AA704391, A1270343, N70103, N70020, AF041058, AC005745, AC007666, AF054569, AF042835, AF045999, AC007999, AC004938, AC004098, U66059, U07563, AC004821, AC002073, AC003101, AC004447, AL078475, AF009660, AC005166, AC006538, AC002286, AC005781, AC004854, AC005523, AC005940, AC002550, AP000961, A1003147, AC000094, AC005838, AC000085, AC005023, AP000553, Z69366, AC007106, AC005815, AC016025, AF010238, AC007845, AC004972, Z49237, AP000404, AL021393, AC005409, AC003041, AL031680, Z93241, AL034402, Z84572, AC005632, U67825, U67826, AC004253, AC005414, AP000555, AC002347, Z82198, U67829, AL031774, Z60740, AC005031, AF044101, AP000350, AP000111, AP000043, AC001050, AC016026, AC006141, U80017, AC001228, AC010197, AC001531, AC007226, AC005015, AC010209, AC004895, AC006312, AL031283, AC005081, AC005291, AC004812, AF129107, AL096761, AL023579, AF051934, AL024507, AC008170, A1229042, AC005531, AC007878, AC009516, AL033681, AC006128, AL035417, AF207550, AC003998, A121655, AP000705, AC006581, AC008045, AL035249, AC002985, AC010077, AF091512, AC003086, AC002429, AL008582, and AC000385.
HBJHT32	124	488736	1 - 321	15 - 335	
HBJHV93	125	881606	1 - 348	15 - 362	H68571, AA641767, and AA223840.
HBJHX08	126	958970	1 - 636	15 - 650	AL117342.
HBJHZ03	127	923733	1 - 491	15 - 505	
HBJHZ08	128	938969	1 - 373	15 - 387	
HBJIA19	129	920881	1 - 678	15 - 692	AA773280.
HBJIA92	130	494812	1 - 324	15 - 338	
HBJID21	131	670642	1 - 415	15 - 429	AA524953, AL418334, A1079663, and A1807855.
HBJID81	132	697594	1 - 433	15 - 447	AA864727.
HBJIL11	133	966701	1 - 414	15 - 428	AC007564, and AL049766.
HBJIL31	134	847865	1 - 527	15 - 541	
HBJIL53	135	971136	1 - 524	15 - 538	
HBJIL75	136	698405	1 - 399	15 - 413	
HBJIL88	137	721859	1 - 475	15 - 489	
HBJIO70	138	725097	1 - 424	15 - 438	
HBJIO79	139	774812	1 - 486	15 - 500	A1797163, AA761740, and A1278601.
HBJIR58	140	735365	1 - 330	15 - 344	AC002470, and AC007308.

HB/JY20	141	669519	1 - 148	15 - 162	AR050541.
HB/JY86	142	725084	1 - 632	15 - 666	
HB/JJB02	143	919379	1 - 435	15 - 449	AC007488.
HB/JJB04	144	878974	1 - 448	15 - 462	
HB/JJB11	145	965016	1 - 424	15 - 438	AC007319.
HB/JJB15	146	659920	1 - 512	15 - 526	N27511.
HB/JJB26	147	681342	1 - 359	15 - 373	<p>AI886860, RI7495, HB6146, AA582791, AA069643, W02625, AA745628, T51436, AA593892, A955111, A7169038, A1538214, N32496, AA243974, AA244061, AA273725, AA745653, AI343169, W24944, H39038, AA856904, AA324108, T62233, AA279649, AI188676, AW410201, AI671077, W03120, AI570237, AI187624, AW404337, AA848002, AI18661, H81267, AA229422, F23294, T26476, AA523695, AA032001, AW341741, F30158, R32162, AI179304, AA452325, AA668715, AA215470, AC004644, AC006111, AC005618, Z95331, AC006146, AC002312, AI021918, AC005089, AC005086, AC002381, AI031295, AC004687, AC008101, U91322, AC016027, AC005874, AF134471, AC016830, AC005081, AF047825, AC006449, AC007425, AI049709, AI132777, AC005730, AC002352, AI031311, AC009946, Z83819, AC003108, AC004970, AC003982, Z98884, AC005969, AC006006, AI121638, AC005015, AC008079, AC004216, AC005193, AC007546, AC007731, AI139054, AC006241, AI121825, AC006312, AP000504, AI133485, AC005500, AC004794, AC002544, U95739, AC003098, AP000103, AP000032, AI133243, AI021155, AF129756, AC004253, AC006581, AC005921, AI035681, AI022165, AI109758, AC007227, AI021391, AF111169, AC006130, AC005666, AF196972, AC007537, AI096701, AI050332, AI022334, AI096678, AC006084, AP000216, Z98751, AC002301, U15422, AI034402, AC006251, AC003037, U1035684, AI034418, AC005006, AI121653, AF196779, AC006211, AI078593, AC005531, AC005237, U73634, AC007566, AC002126, AF064861, AC005562, Z83843, AC002565, AC006040, AC000379, AI021026, AC005018, AI035460, AC005317, AC007376, AC004883, AC005037, AC004821, AC005971, AF001550, AC002404, AI109865, AC005207, AI031584, AC000035, AC005332, AC004938, AB020864, AI133163, AP000694, AC003661, AF003626, AC005486, AP000516, AC004876, AI035086, AI135744, AC005815, AP000514, AC003563, Z98752, AI049780, AC007055, AC006441, AC005377, AC008372, AC009510, AI031778, AC005664, AF111168, AC005907, AI031281, AC005620, AI021707, AF126531, AC020663, AI022302, Y14768, U91321, AI109967, U91327, AC000025, AC006160, AC004386, AC007052, Z83826, AC005544, AC007011, AI031673, AC004150, U65630, AC003072, AC007686, AC005048, AC006132, AP000553, AF195658, AC004542, AC002316, AI022336, AF053356, AP000043, AP000111, AC004647, U91323, AC005082, AI133448, AI099532, Z97055, Z93017, AP000030, U07000, AC005768, AC019014, AI049832, AC007774, L78833, AC003119, Z84480, AC002365, AI121655, AC004223, AC005839, AC000353, U80017, X69908, AC005325, AI020997, AC003829, L78810, AC005632, AC005821, AI035413, Z69719, X69908, AC004933, AC002310, AC004983,</p>

	HBJJB40	148	710873	1-519	15-533	AL022326, AC008041, AC007283, AC007510, AC005180, AC004895, AC008115, AC005192, AC005378, AC005484, AC004804, AC006974, AC005527, AP000704, AC012398, AC005291, AC004813, AC005696, AC005070, AC004000, Z69705, and AL031685.
	HBJJB61	149	741615	1-369	15-383	AZ055547.
	HBJJB62	150	743096	1-422	15-436	
	HBJJB74	151	765406	1-426	15-440	
	HBJJB78	152	489438	1-390	15-404	AA076977, and AA076965.
	HBJJDJ31	153	691780	1-452	15-466	RS8828, AP000556, and AP000557.
	HBJJD90	154	712982	1-435	15-449	AL035090.
	HBJJH48	155	721473	1-357	15-371	
	HBJJJN13	156	915977	1-414	15-428	W03924,
	HBJJO29	157	666221	1-384	15-398	AA566068.
	HBJJS46	158	718894	1-589	15-603	
	HBJJU62	159	664298	1-415	15-429	
	HBJJU81	160	671611	1-375	15-389	AW449043, AA515418, EI5648, EI5652, and EI5653.
	HBJJX04	161	949592	1-917	15-931	AI543473, AW294828, AI521275, and AT797793.
	.HBJJX11	162	847854	1-403	15-417	
	HBJJX44	163	657242	1-561	15-575	T55674, NS2741, and ALI110337.
	HBIKA75	164	682250	1-233	15-247	AC0357979, AA078137, AA078184, H63933, A1431513, AL036665, AA572974, AA626840, AA744095, AA774006, AI561043, AW029269, AI928800, H63220, ALU037927, AA744423, AW105463, AA026595, T49133, AW151761, AA484191, D82321, AA513884, AAWI09964, F30158, AA317261, TS1436, AA745628, AA515351, AA587826, AA573062, N34689, AA666066, AA053463, AA640252, AA434346, AA808847, AA669747, AI479148, AA478602, AA657374, AA564582, AI370170, AA599749, AA713705, AA653638, T06576, AAAT15948, AI635400, F32213, AA826102, IAB60535, AW128881, AIS90404, AW419389, AA741301, N30650, W379218, AA610433, AA568314, H65308, AG699517, AI362694, WA151541, AA302978, AW085790, W272815, AU079734, AI811647, R81176, AA653985, AW069412, U91320, AL121825, AC006065, AC006538, ALI09827, Z98051, Z79997, AL078611, AC005081, AC005015, AC002457, AC003037, AC007057, AC005534, AC005037, Z99128, AC002316, AC005696, AC005192, AL035089, AC005772, AC005253, AL024498, AC005562, AL008715, AC005184, AF196779, AL122020, U96776, AI096677, AI109847, AC004815, AC002456, AC005231, ZB3820, AC005284, AC004158, AL031594, AL049713, AF207550, AC003969, AC010200, ALI109865, AC003973, AC005214, AL031776, AC007129, AI050318, AF121781, AC004797, AC006312, Z99716, AF053356, AC002073, AC004331, X64467, AC005031, AP000008, AL049570, AP000704, AC005828, AL031433, AC008115, X64467, AP001905.

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HBKCS6	166	735812	1 - 287	15 - 301	T96742, and H57012.
HBKCS6	167	974121	1 - 514	15 - 528	
HBKJD68	168	676330	1 - 238	15 - 252	
HBKJB63	169	744847	1 - 369	15 - 383	
HBKJF06	170	935033	1 - 589	15 - 603	AW241714, and AA927828.
HBKJF86	171	714449	1 - 494	15 - 508	
HBKJL26	172	489160	1 - 516	15 - 530	W87882.
HBKJL78	173	588085	1 - 317	15 - 331	
HBKJL51	174	784830	1 - 865	15 - 879	AW451973, AF76808, H88067, AA477171, AL76202, AA760752, AA781175, AW173607, AA92090, AL654796, AA946869, and H88069.
HBKJL57	175	683265	1 - 460	15 - 474	AA465326, and AL031733.
HBKJL73	176	765356	1 - 408	15 - 422	

HBJL82	177	735748	1 - 474	15 - 488	AA483929, AI499588, N57739, AA664548, AA493136, AI524360, AT791913, AI821714, AA482273, AW023990, T06754, AA455670, AA606672, AA501649, AA961035, AA579179, AA837087, AA533782, AA487888, AW438542, AA503298, AI821785, AW023149, AI223700, AW149313, AA588001, AA618452, AI473475, AA662976, AW270343, AI933714, AI431240, AA858372, AW148507, R31790, AA857370, AW190604, AA339692, AA580808, AA846261, AA502991, AW238605, AA370455, AI580250, AA507282, AI648410, AI587224, AA483771, AW270709, AA595499, AA516233, AA828062, AA501852, AA719073, AI470646, AA846935, AA297666, AI859438, N23504, AI683446, AA436774, AI138096, AA002063, AA6035368, AI042927, AI874308, AA654661, AA610688, AA436782, R23521, AA515905, AA502440, AI696595, AA071334, AA621381, AI921043, AA468505, AW341978, AI792133, AA230213, AA043770, AA631632, AI036037, AI354388, AI754544, AA707782, AI707705, AI341571, AA833896, AA282820, AA833875, AI733856, AA780944, AA503119, AI754567, AA483223, H25921, AI755214, R23441, AI691091, AA493975, AA368573, AI056177, AA522642, AI038971, AA513893, AA653375, AI044586, AA687535, R73754, H29019, AA634837, AI047429, AA209423, AI587565, AI587583, AW302080, AI253007, AW081194, AW302087, AI434695, AA077019, AC004257, AC005696, AC016830, AC005060, AC006313, AC005071, AC003070, AF111168, AI049779, AI031447, AF047825, AC004659, AC006120, AC004148, AI133246, AC016027, AC007191, AC005002, AC005527, AP000556, AP000252, AC003029, AP000552, Z82180, AC003690, AC005226, AC004832, AC004883, AC005581, AC005387, AC004999, AI121653, AC004884, AC006312, AC005519, AC007842, AC005003, AI033518, AP000557, AI096701, U82828, AI049653, AP000703, AI121595, AC006251, AP000116, AP000049, AC007277, AC004638, AC005914, AI035422, AI050318, AC005880, AP000121, AP000053, AC005939, U47924, AI110502, Z97054, AC006112, AC005317, AI135744, AP000311, AC003663, AI049761, AC004953, AC004019, AC002116, AC005694, AC006487, AC005512, Z95115, AI021807, AI049745, AC007011, AC002301, AC005231, AC002375, AC006978, AP000066, AP000538, AC012384, AI109984, AC005197, Z75746, AF001549, AI031228, AC004814, AC006285, U82668, AP000513, AC005529, AI021940, AC005971, AC002310, AC006028, AP000244, AF111169, AC005899, AC005280, AC005049, AC0060441, AC002531, AI049776, AC002063, AC007172, AI022165, AC004675, AC005051, AP000251, U91326, AC004149, AC003024, AF165926, AC006530, AI003147, Z85999, AI023553, L77570, AI049589, AC009247, AC005305, AC005790, AI109798, AC007193, AC005730, Z84483, AI034451, AC002492, AC004983, Z84466, AC004706, AC007450, AP000355, AC005181,
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HBIL57	183	734522	1 - 322	15 - 336	
HBIL68	184	732810	1 - 332	15 - 346	
HBILP14	185	725747	1 - 341	15 - 355	
HBILR56	186	843811	1 - 882	15 - 896	
HBILR82	187	779004	1 - 354	15 - 368	
HBILV29	188	823400	1 - 374	15 - 388	
HBIMA30	189	661665	1 - 646	15 - 660	
HBIMA51	190	725095	1 - 179	15 - 193	
HBIMC53	191	726491	1 - 454	15 - 468	
HBIMD71	192	760155	1 - 531	15 - 545	
HBIMD74	193	975088	1 - 467	15 - 481	
HBIME92	194	792110	1 - 426	15 - 440	
HBIMF23	195	675692	1 - 379	15 - 393	
AF088319, AC006581, AC002543, AP000065, AC007546, Z93942, AC005856, Z85996, AL080317, AP000689, AC005409, U89335, AL031673, AP000030, AJ133269, AC004812, L42140, AC000139, Z98036, AB023052, AF196969, AJ010770, AC002470, Z83844, AC004686, Z88214, AC000134, AC003982, AL078477, AC009516, AL035420, AP000692, AC016831, AC005999, AC003993, L78810, AC005531, AC007358, AC005089, AC005800, AC004655, AL049699, AL033543, AC006137, AC002041, AC000025, AL049757, AC004383, AC007387, U91323, AC007227, AP000512, AC007262, Z98884, AL133448, AL049759, AC007114, AL033522, AF043945, AC006211, AC007636, AC004955, AC004263, AF129756, AL022721, AC005598, AL031255, AC005765, AL049872, AL031983, Z85986, AL035684, AC007371, AC008040, AC003043, AC008132, AL022323, AC005520, AC005480, Z98051, AL049760, AL080243, AC004815, AL022316, AC005037, Z83846, AL023807, U80017, AC002472, AL133163, AC007919, AC006453, U91325, AC005535, AC005940, AC000353, AC005209, AL022396, AL008582, AP000503, AC007540, AC002996, AC007785, AC006026, AC005081, AC004448, AC007686, AC006040, AC016026, AC002395, AC004848, AC005234, AC002070, and AL139054.					
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AW239537, AA232075, W78769, AW020962, AA448818, AA128583, and AJ010842.					
A1797543, AA121152, AW189950, AA281969, A1082147, A1034184, A1871347, AA815173, AW418773, AA579808, A1468532, A1290248, AA458860, AA227296, AA573302, AA702437, AA278877, AA227295, A1458479, A1802340, T07432, Z39708, A1985569, T85327, AA659414, A1027853, A1766719, AA350191, AA904439, T16811, and AC004798.					
T87986, and AA814273.					
AW206211, AF150250, C14388, AC002045, AC009509, AC006241, U52111, AC002554, AC004491, AF047825, AC005086, U95739, AF111168, AC007285, U80017, Z82190, AL031602, AL121655, Z97054, AC004893, AC005874, AF134471, AC007993, Z85987, AC003104, AC000134, AC007919, AC004692, AC008115, AC005363, AC005822, AC005300, Z94801, AC002128, AC003029, AL034429, AC005088, AC005914, U96629, AC005534, and M18157.					
AA126910, AP000360, AC000053, AC002060, and AC005002.					

HB/IMF30	196	691179	1 - 566	15 - 580	
HB/IMF47	197	720050	1 - 374	15 - 388	
HB/IMT6	198	720047	1 - 425	15 - 439	
HB/IMK34	199	935952	1 - 443	15 - 457	AW182540, AA610084, AL936489, AA306791, AW340569, AA905749, and AB033030.
HB/IMK94	200	794129	1 - 438	15 - 452	AW004683, H87822, H87851, and AW015156.
HB/IML28	201	614911	1 - 465	15 - 479	AC004254.
HB/IML69	202	864004	1 - 662	15 - 676	AL031657.
HB/IMM72	203	760833	1 - 408	15 - 422	AL241023, AW401921, and AB023483.
HB/IMN75	204	699060	1 - 448	15 - 462	AC002368.
HB/IMQ86	205	576429	1 - 513	15 - 527	H55415, W22115, AL096701, and AB011114.
HB/IMR15	206	964484	1 - 493	15 - 507	
HB/IMR60	207	740142	1 - 601	15 - 615	AA601336, AA640305, AW341878, AL567676, H79323, AA593168, AW020612, AA167656, AW085626, AA472904, N27362, F33374, N49298, AA179364, W45416, AL1520984, T89141, R99617, AL233347, AB918661, AL061158, AL281622, AA947352, AA228268, AA664963, W27084, AA761454, F01694, I57636, AA299490, AI744890, N63562, AL640905, AL6490048, H81012, AL569452, AA828840, AL828721, AA496042, AL028376, AL343808, AA776663, AA428991, AL363336, AL149177, AL049743, AF165926, Z83840, AL109984, AL031311, AC005412, AC004821, AC007686, AC007546, AC007207, U85195, AC005377, AC007421, AC008115, U95742, AE006658, AC004832, AL035587, L78833, AC007216, AL020997, AL031589, AC004797, AC005520, AL035420, AF196779, AF139813, Z98200, AL033392, AC003025, AL035086, AL080243, AL121655, AC006530, AC005355, AC002312, AL246603, AC004228, AC004895, AC005180, AL096791, AC006312, AP000512, AC005519, AC006283, AC005081, AL049869, Z82190, AC005839, AC005015, AL049694, AC004816, AC006071, AC005726, AC002120, AL031293, AC005089, AC006121, AL021453, AC005527, AC005696, AC006139, AL135744, AL133163, AF217403, Z97630, AC005971, AL035422, U78027, AC004878, AC004975, Z82176, AF023268, AC000025, AL121603, AL008582, AL049757, AF001549, AC005399, AC005914, AC007387, AC005207, AC000048, AF207550, AC005821, AC000294, AP000248, AC005876, AC002117, AC005231, AC005288, AL034429, AC006130, AF111167, AP000704, AL133448, AL096701, AC007386, AF111168, AC005529, AL031280, Z98884, Z73799, AF134726, AC004099, AC006581, AF051976, AC006160, AC006607, Z93020, AC004212, AL008734, AC007993, AC005695, AP000555, AC004913, AC007308, AF109907, Z97056, AC005277, AL020995, AC003041, Y18000, AL117329, AC007263, AL034421, AP000503, AP000008, AC004967, AP000514, AC004834, AC002558, AL034420, U52112, AC005632, AL022333, AC005755, AL049780, AL031123, AC007055, AL132446, AC005911, AC005049, AC003109, AD000092, AC004897, AC007226, AC005183, AC005829, AL023807, AL122020, AL109952, AD000864, and AC005993.
HB/IMT52	208	726480	1 - 240	15 - 254	

HBIMV72	209	952862	1 - 469	15 - 483	
HBIMV20	210	669030	1 - 643	15 - 657	
HBIMX04	211	614930	1 - 338	15 - 352	
HBIMX21	212	933143	1 - 353	15 - 367	
HBIMX29	213	690404	1 - 347	15 - 361	
A1810024, A W023610, and AA609969.					
AW166629, AA601349, AA052895, N66744, A1732437, A1114704, T86740, AA491447, T98482, AA918759, AA663115, AA663086, AA291630, H72049, AW084038, R11040, A1026873, AW440498, T87973, AA846969, H93001, N63743, AA603883, AW028174, AA838162, AA507035, AA706845, AA837385, AA291700, AA297496, H73336, AA532365, AC004961, AL133382, AL034411, Z73420, AC002352, AC004887, AC003108, AC004645, U91326, AC006111, AC005509, AC004081, AL008712, AC016831, AL031276, AL031332, AC005531, AC007298, AL080286, AC004950, AL031985, AC004987, AC004448, AP000365, AL021939, AP000514, AL015262, A1229043, AC005037, AL020993, AF196969, AP000347, U08988, AP000295, AP000044, AP001112, AP001152, AC004223, AC007663, AC006549, AF001549, Z68756, Z70289, AC007774, AC005516, AC004466, AC002312, AC002390, Z92547, AC005746, AC003071, AC002544, A1010770, AL031584, AL121595, AB014080, AF017104, AB026898, AL050312, AL034408, AF020662, AC000078, AL109798, Z95331, AC002400, AC006441, AL049430, AC006059, AF147316, AC005081, AC004638, AC004876, AC004106, AL022578, AC002365, Z85987, AF196779, AC007364, AC004167, AL034582, AC016027, M98447, U82671, AL009179, and AP000553.					
HBIMX34	214	703843	1 - 382	15 - 396	
HBINC11	215	966608	1 - 516	15 - 530	
HBINC89	216	786707	1 - 341	15 - 355	
HBIND59	217	576434	1 - 767	15 - 781	
AA985391, A1053911, AA548890, AW403888, AL037632, AA081462, A1470646, AA834809, AA588001, AA833896, AA833875, A1580250, A912287, AA483771, AA380354, H59372, AW274349, AW303196, AA580808, AW196064, H61630, AW301350, AL138096, AA515457, A1791913, A1792133, N54894, A1821714, AA679154, A1282511, A1823218, F25733, A1270096, AL119713, AL120687, A1283312, AA683258, AA507822, AA457642, AA491862, AA838190, AA491650, AW270270, H70994, A1821785, AW440545, H69109, AC007226, AF003528, AL031905, AC005815, AL008715, AC005036, AC008055, Z98941, AL096772, AC023172, AC005144, AC006013, AC007435, AP000228, AF163147, AP000140, AC007488, AP000088, AC005722, AC002480, AL049712, AC002523, AP000201, AP000093, AC005881, AC007447, Z82198, AP000097, AP000237, AF107258, AC007437, Z74739, Z86064, A1229042, AC005261, AF001552, AF146191, Z83846, AC007842, AL009050, AC007671, AC005249, Y12853, AC007298, AL023807, AC004216, AC008372, AC005011, AL078459, AL031664, AC007066, AP000961, AL023508, AL079342, AL024495, AC005284, AC004741, AL121595, AC002499, AL021978, AC005874, AF134471, AC005146, U91323, U82668, AC002536, AP000066, AC007262, AL033379, AC004948, AL080239, AC002091, AC007681, AL049744, AP001020,					

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HMBBC18	218	578857	1-298	15-312	AB014526.
HMBBC25	219	573103	1-414	15-428	
HMBBC35	220	921417	1-348	15-362	AC004702.
HMBBC91	221	506594	1-560	15-574	H69543, H80124, W88965, W88544, R02124, and AP000497.
HMBBE72	222	760737	1-632	15-646	AW205507, and AL300640.
HMBBE84	223	578869	1-325	15-339	AC005905.
HMBBH36	224	971172	1-341	15-355	
HMBBH35	225	732250	1-289	15-303	
HMBBH01	226	753141	1-199	15-213	
HMBB106	227	933819	1-407	15-421	
HMBBN32	228	775670	1-362	15-376	AA127005, H06566, AA125853, R56714, and AF191018.
HMBBO20	229	496513	1-453	15-467	
HMBBQ33	230	702457	1-461	15-475	R11468, AL009031, and AC002326.
HMBBQ83	231	689705	1-533	15-547	AA604872, AA026240, AA704592, AA258677, AC004087, and AC002385.
HMBBS11	232	967111	1-355	15-369	AC018633, and AC003271.
HMBBT85	233	863938	1-349	15-363	
HMBBU24	234	677240	1-179	15-193	AA747565, AW207289, AL249497, AW366372, AL336633, AL342455, AL332653, AW149876, AL336634, AL524654, AL049713, T99953, R28164, AL538938, AL289542, AL344935, AL267185, F28295, AL114703, AL811603, AA749184, AL048323, AW059828, F35428, AL048340, AL473208, AL479292, AL360195, AW022102, AL809507, AL285514, AA493923, AL383804, AL801325, AW020419, AL690813, AL687568, AA595932, H89138, AW188698, AL699020, AL687587, AL289791, AL521005, AL784233, AL918554, AL345005, AW020095, AW169643, AL345745, AL225000, AL440263, AL698427, AL939199, AL468959, AL310575, AL161279, AL799351, AL872423, AL334893, AA481494, AL340533, AA761917, AL669640, AL120831, AL284509, AL047398, AL689404, AW169628, AL040207, AL345736, AL273919, AA587590, AA502794, AL345415, AL246070, AL364629, AL345396, AL366959, AL828574, AL499104,

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HBMBU38	235	531494	1 - 311	15 - 325	
HBMBX69	236	698362	1 - 319	15 - 333	
HBMBY27	237	574803	1 - 407	15 - 421	
HBMBS71	238	880580	1 - 1275	15 - 1289	
HBMCA44	239	716647	1 - 504	15 - 518	
HBMCA58	240	736084	1 - 287	15 - 301	
HBMCA94	241	793174	1 - 444	15 - 458	
HBMCD26	242	847826	1 - 275	15 - 289	
HBMCD49	243	723005	1 - 344	15 - 358	
HBMCE22	244	674659	1 - 439	15 - 453	
HBMCH75	245	932037	1 - 562	15 - 576	
HBMCH88	246	711318	1 - 387	15 - 401	
HBMCK57	247	495736	1 - 493	15 - 507	
HBMCK14	248	658484	1 - 253	15 - 267	
HBMCS34	249	703438	1 - 675	15 - 689	
HBMCS77	250	465070	1 - 486	15 - 500	
HBMCT67	251	751643	1 - 312	15 - 326	
HBMCL92	252	529580	1 - 514	15 - 528	
HBMCL21	253	967099	1 - 303	15 - 317	
HBMCL27	254	683436	1 - 351	15 - 365	
HBMCL73	255	855694	1 - 369	15 - 383	
HBMDA51	256	691116	1 - 434	15 - 448	

HBMDQ03	257	924183	1 - 405	15 - 419	
HBMDQ16	258	888206	1 - 398	15 - 412	
HBMDQ38	259	750274	1 - 135	15 - 149	
HBMDQ36	260	861576	1 - 279	15 - 293	
HBMDQ59	261	739316	1 - 333	15 - 347	AA027081, AI525633, AI525669, AI527238, AI527808, AI527602, AI547225, AI557426, AI541321, AW020592, AW022727, AW021178, AI541056, AW022874, AI541048, AW020406, AW019988, AW021777, AW022826, AW022299, AI527222, AI525802, AW022308, AW020328, AI886206, AW020634, AW023351, AW021693, AI527258, AW020931, AW022981, AW021182, AW020480, AW021466, AW022593, AW020629, AW023884, AI525857, AW021561, AW021059, AI525656, AW023617, AW020295, and AC007655.
HBMDQ19	262	657382	1 - 339	15 - 353	AA677098, and AC004814.
HBMDQ55	263	952830	1 - 393	15 - 407	
HBMDQ79	264	805554	1 - 788	15 - 802	F34605, AI340151, N69399, AI246061, AA229159, F00350, AI302350, H64549, F24745, R68706, H16875, AW071109, AI204309, AA523719, AA778580, AA456149, M85827, AI280566, M78026, Z30049, W45215, AA648957, H68343, AC012384, AC002480, AC005531, AI008710, AI035079, AI031729, AI049631, AC004025, AC004983, AI022320, U80017, AC007488, AC004477, AI121769, AI022397, AP000300, AC002994, AI049832, AC002350, AC007172, AC007066, AC006449, AP000113, AP000045, AC007014, AC004466, AC003681, AC006557, AC004791, AI031054, AC007880, AF109907, Z98884, AC005529, AC004797, AC002310, Z99943, AB000658, AC006101, AP000346, AI049712, AC003046, U15177, AC004874, AC005516, AI022316, AC002990, Z83822, AP000354, AC007040, AC005527, U91323, AC005191, Z82194, AI135745, AF001550, AC004656, AI031668, AC005829, Z95114, AI021707, AI121653, AC004448, AI121852, AI021578, AC004890, AC005184, AC005486, AC006141, AI008718, AC007228, AC004584, AC000003, AC003108, AC007919, AF196971, AP000501, AI096711, AC004816, U96629, AC006120, AF207550, AI031655, AC004263, AC005846, AC002367, AC006576, AI034429, AI003147, AC007955, AC002369, AI049709, Z86090, AI034420, AC018633, AI121748, AC000159, AI035420, AC006509, AC004953, AC002528, AC004878, AC003015, AC005280, U89337, AC005049, AC002303, AC006137, AC005099, AI008635, AC007546, AC005696, AC004858, U89335, AI035681, AC003029, AF024533, AI031255, AC005664, AC005207, AI109984, AI035587, AC005865, AI022326, AC005844, AC007182, AC005753, AC000097, AI008725, AI031848, AC006547, AC002470, U91325, AC000379, AB015355, AC005164, U91318, AI035652, AC005332, AC002091, AI049869, AC006468, AC005007, U95742, AC002565, AC006538, AC007707, AC005158, AC005800, AI031733, AC003075, AC005037, Z85986, AC005859, AC007216, AI031643, AC004223, AI048177, AB003151, AP000688, AI034423, AI022772, AC005736, AI031591, AC003982, AF069291, AC002312, Z82190, Y10196, AC004098, AC004967, AP000313, AC003950, AI035249, Z95704, AC005197, AC009542, AC005484, and AR036572.

HBMDJ11	265	967046	1 - 325	15 - 339	AC005971.
HBMDJ36	266	721673	1 - 188	15 - 202	AW303196, AW274349, AW301350, AT754955, AA649722, AA634145, AA768097, AA937687, AA810370, AA719080, AA573020, AA644207, AA709005, AA504638, AA558060, AA487858, AA568778, AA649705, AA579736, AA554319, AA858197, AA461233, AA513972, AA501578, AA814522, N29933, AA1132914, AA483731, AA480790, AA824655, AA582911, AA077817, AA437161, AI830390, AA523815, AA350859, T15897, AA650450, AA602528, AA070468, AA861959, R97934, AA845813, AA634706, AI962050, AI284640, R38154, AA610493, AW440976, H50727, AI251002, AW236342, T07451, AA167659, AA525824, AA577906, T71030, AA229785, AA522942, AA603156, R97326, T06828, AA678499, AA743978, AA504871, AA578481, AA492140, AA623002, AI970213, AI625244, M77899, T05101, R89294, AA199616, AA490183, AW193265, AI828332, F18974, AA5259245, AW276435, AI270117, AA826303, AI688846, AA605032, AA649642, AI824562, AA745104, T41124, AA113861, AA720548, AA729721, AA634146, AA525876, AA326589, AA569167, AI205126, AI278997, AA552885, H64778, AA346575, AA610611, T08438, AA325817, AI339850, AA075995, AW029038, AA558015, AA947360, AA804379, AI929531, AA664015, AA837677, AA632837, AA515435, AA550758, AA973803, AA483068, H63607, AA774184, F32800, AA770387, AA719805, AH34695, T06556, AW088038, AI537955, AA177061, AA020850, N66428, AA594145, AI469172, F19012, F36273, AA401022, AI216799, AA886584, AW438643, AA578391, AI281697, N33611, AA252263, AA837084, AA446657, AA947811, AA233519, AA780797, AA847128, AA771811, AA491762, AI291124, AA378580, AA586562, AI471481, AW166815, AA4890235, AA713815, AA745410, AW162049, AA515051, AA665072, AW419118, AA323749, AI291268, AW276827, AI014358, AA503473, AA610783, AW021747, AA449088, AI537030, AA599920, AA605274, H10994, AI046409, AW440836, AA743960, AA368936, AI341548, AI679782, AA813902, W16581, AI904894, AA678443, H64563, AI564185, AA601499, AA485291, AA598586, AW193432, AA779040, AA346454, AA775940, AI044940, AI917271, AA557879, AI281881, AI469003, AI287651, AA385100, AA557686, AI801591, AI446464, AI286264, AW302450, AF150152, AA325699, AA441788, T40077, AI918421, T41155, AA225155, T67750, AA678772, AA827295, N63352, AI431303, AI049722, AI133636, AI567674, N25296, AA501722, AI002834, AA558697, AA747480, AI053672, AI674873, AA644551, AA551503, W47183, F03097, AI350211, AI890923, AA468131, AA352803, R97969, AA552945, AA569387, AW338500, AI046457, AA513293, AI375710, AA458736, AI287528, AA587604, AP000130, AP000208, AP000247, AP001046, AI096701, AP000302, AP000114, AP000046, U13056, U07000, Z83822, U14694, U12508, U14719, AC004606, AP060568, M27161, AC005994, Z82208, AF003528, U89335, AI049869, AC006210, U14718, AI031447, AI035420, AP000307, M87916, L43392, AC006241, AC002984, U14687, Z82975, AI049843, AC004024, AC005971, AC007043, AI049776, AC007656, U47924, AP000047, U67724, AC005251,
HBMDK12	267	970684	1 - 348	15 - 362	

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				AL142427, AF073792, U51134, and I81226.				
				AL0205126, TS5510, AL0003172, TS3606, F19238, AW104748, AL474713, U51696, W60516, F29989, AA557325, AL008626, H71429, AW080134, AL365988, AA340960, AL962050, AA814017, AL251002, AW339687, AA515051, AL29531, AW166815, AL635772, AA169801, AA229785, AW162049, AW440836, AL339850, AL890923, AL567674, AL625244, AL049722, AW029038, AP04894, AL917271, AL133636, AL119391, AA713815, AL469003, AA826303, AA904218, AL120674, AW338500, AA115968, AA584751, AW131034, T29180, AL038785, AA079706, T12272, AL922840, AL040913, AL368745, AA340003, AA551509, AA228329, AL041368, AL138265, AA653057, AL148489, AW023672, AA886584, T90706, R55847, AA644207, C06458, AA482711, AA483068, AA669251, R95171, AL679792, AL003743, AA501344, AA327782, AL4633187, AA099892, AL802526, AA113186, AA365587, AC004491,				

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AB017919.				
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HBM5B19	271	847800	1 - 252	15 - 266
HBM5K92	272	531156	1 - 114	15 - 128
HBM5O15	273	847795	1 - 425	15 - 439
HBM5O39	274	531158	1 - 206	15 - 220
HBM5T79	275	544889	1 - 119	15 - 133
HBM5TG5	276	932497	1 - 245	15 - 259
HBM5TM75	277	574515	1 - 317	15 - 331
HBM5TP84	278	703844	1 - 253	15 - 267

HBMTU03	279	924979	1 - 292	15 - 306	
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HBMUTV58	280	806670	1 - 651	15 - 665	
HBMUTX29	281	689834	1 - 139	15 - 153	
HBMUTX84	282	537385	1 - 338	15 - 352	Z93017, and AL009181.
HBMUTY82	283	523728	1 - 316	15 - 330	
HBMUA62	284	557828	1 - 330	15 - 344	AI064768, Z98753, AL031681, Z95703, AC000354, AC007036, AL135746, AL109653, AP000516, U82672, AL133512, AL049648, AL033530, AC004986, AC002357, AL049554, Z83850, AC006152, AL022164, Z75895, AC010349, AL022310, AC004191, AB014088, AL096803, AL021812, AC002069, AC011604, AF121898, AC005323, AC006354, and AC004930.
HBMUD12	285	574796	1 - 306	15 - 320	AL122070.
HBMUF60	286	740606	1 - 311	15 - 325	AC007536.
HBMUG57	287	735024	1 - 303	15 - 317	
HBMUH62	288	752244	1 - 329	15 - 343	AL096791.
HBMUI84	289	531159	1 - 243	15 - 257	AB12718, AC005023, Z95118, AC005041, and AL034548.
HBMUK59	290	712591	1 - 462	15 - 476	
HBMUN30	291	693337	1 - 559	15 - 573	
HBMUO10	292	953933	1 - 316	15 - 330	AF015720, AJ229041, AC005829, AL031283, AC000134, and AL031255.
HBMUO12	293	417210	1 - 178	15 - 192	
HBMUO90	294	928078	1 - 311	15 - 325	AL022313.
HBMUP35	295	531101	1 - 236	15 - 250	
HBMUT83	296	793052	1 - 462	15 - 476	
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HBMUV03	297	924916	1 - 394	15 - 408	
HBMUY32	298	959968	1 - 234	15 - 248	
HBMU296	299	574522	1 - 208	15 - 222	AL020995.
HBMVA83	300	529815	1 - 275	15 - 289	AL043165.
HBMVE14	301	545170	1 - 685	15 - 699	AA160290, AA337550, AW377670, AA046565, AA447158, W42824, and N21687.
HBMVIT9	302	781686	1 - 227	15 - 241	AC020663.
HBMVY94	303	574511	1 - 191	15 - 205	
HBMV002	304	920759	1 - 598	15 - 612	AL109839.

HBMAWA31	305	529678	1 - 406	15 - 420	AW291592, AA135499, AI949732, AI567157, AI040759, AI682731, and AA764743.
HBMAWA57	306	528863	1 - 202	15 - 216	AC002470.
HBMAWI35	307	706033	1 - 367	15 - 381	
HBMAWI31	308	959223	1 - 635	15 - 649	AI621074, AA648509, AW103842, AI133256, AF118079, and AI133216.
HBMAWI30	309	936058	1 - 309	15 - 323	
HBMAWI31	310	529837	1 - 202	15 - 216	
HBMAWQ85	311	765109	1 - 397	15 - 411	AW377503, AA007382, W23548, AA001311, H53191, and N78201.
HBMAWV93	312	574801	1 - 439	15 - 453	AC004223.
HBMAWX74	313	573336	1 - 310	15 - 324	
HBMAWZ14	314	573335	1 - 311	15 - 325	AI436109, H27387, AI889289, AI027575, N79584, AA828426, AW014938, N79587, AI174444, AI143425, AW247147, AA826017, T59414, AW087276, AI434510, AI913074, AI351503, AI200849, AI921728, AI222784, H11717, AI246366, AI936789, AA281074, AI093047, AW004642, AI826923, AA857401, AI313190, AI589862, AI581002, T66176, H14297, AI313169, and AI658705.
HBMAWZ16	315	712832	1 - 482	15 - 496	
HBMAWZ94	316	573348	1 - 334	15 - 348	
HBMAXE31	317	573323	1 - 298	15 - 312	
HBMAXE47	318	573324	1 - 66	15 - 80	
HBMAXXG08	319	959766	1 - 405	15 - 419	
HBMAXXH68	320	571361	1 - 584	15 - 598	
HBMAXL10	321	968054	1 - 385	15 - 399	
HBMAXM65	322	925570	1 - 467	15 - 481	Z55829.
HBMAXM39	323	705578	1 - 348	15 - 362	AI054090, AI246061, AI284543, AA297207, AI249853, AI251241, F33126, AI254770, AI133514, AI251944, AI251034, AI251284, AI250552, T93105, AI690497, AA502098, AI300054, R51582, AI160786, AI223626, AA779667, AI421723, AI119156, AI119182, AA019964, W63553, AA378207, W81372, AA714011, AI866970, T08386, AW303098, AI570019, AI749306, AA558366, AW069227, AA492114, AA664126, AI368873, AA805989, H86579, AI889579, AI634187, AI457313, AA772704, AA745628, AA582746, AA491710, AA938727, F35684, AA657910, AA837771, AA831408, AI619994, AA584493, AA769141, AA302934, F95822, AA587215, AI858272, AW161016, H78984, W95552, AA078128, T64444, AA890060, T39230, AA568747, T51556, AA973913, AA244406, AW236277, N25079, AW392414, AI134940, AI110760, T61928, AW169390, U46402, AI650702, AA122310, AC007406, AI022726, AI196972, AC005881, AI022320, AC006270, AF178030, AC006576, AP000501, AC004813, AC009248, Z99128, AC005899, AC012627, U82828, AC006084, AC008123, AI049694, AI109963, AC002425, AC005157, AP000011, AI031432, AF196779, Z98304, AC005291, AI135744, AF165926, AC005516, AC005529, AI133246, AC004812, AC005519, AC005082,

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HBMXN69	324	731274	1 - 356	15 - 370	AI934342, AI652289, AI749542, AI708414, AI659752, AA521117, AI685658, AI469153, AA810054, and AA749006.
HBMXO08	325	959768	1 - 336	15 - 350	
HBMXP90	326	574802	1 - 576	15 - 590	AI206408, AI765081, AW117539, W76554, W47134, AI282130, R00077, AW139096, AI970492, FI0866, A W003300, AI4692386, AI473105, AI699748, R38163, AP0007132, and AC006055.
HBMXR44	327	693123	1 - 400	15 - 414	AA094354, AL120141, U49973, Z99128, DR3253, AP000150, AP000009, AC007869, AC007297, AL031781, AL022333, AC018633, and AC004382.
HBMXS38	328	706039	1 - 654	15 - 668	AA806368, and AI811425.
HBMXU37	329	787155	1 - 512	15 - 526	AA354804, H95288, and AC004472.
HBMXW13	330	657241	1 - 408	15 - 422	AL035461.
HBMXW73	331	764440	1 - 338	15 - 352	AA634933, and T63384.
HBTAE07	332	955607	1 - 543	15 - 557	AA618452, AA478355, AI284640, AA493605, AL046409, AA453558, AI133297, AL045808, AL046156, AI270117, AI345157, AA490183, AI583283, AW275510, T06754, AW438555, AI499588, AW149313, AA584167, AA775143, AA836811, AA483929, AI042753, AA938105,

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HBVUA642	333	676856	1 - 349	15 - 363	AF108138.
HBVAA17	334	924209	1 - 213	15 - 227	AI310343, AA559205, and J03059.
HBVAB40	335	463488	1 - 307	15 - 321	AA713872.
HCFAA38	336	576731	1 - 408	15 - 422	
HCFAC84	337	869239	1 - 626	15 - 640	AL031733.
HCFAP63	338	689719	1 - 404	15 - 418	
HCFAT85	339	728254	1 - 333	15 - 347	
HCFALU41	340	576064	1 - 452	15 - 466	
HCFALU74	341	576069	1 - 201	15 - 215	AA527109, AA533660, AF205588, Z83820, and Z82200.
HCFALU46	342	924086	1 - 515	15 - 529	
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HCFB14	347	658542	1 - 233		and AF217403.
HCFB14	347	658542	1 - 233	15 - 247	AI952593, AA402934, and T24885.
HCFB14	348	850449	1 - 141	15 - 155	AA680371, and T85563.
HCFB14	349	953506	1 - 286	15 - 300	AC005969.
HCFB14	350	870890	1 - 551	15 - 565	AI613235, AA903469, AA813305, F25776, AW071554, AW150820, AW194200, AI983597, AI246999, AW004802, AI264662, AI282522, AA282330, AA229754, AA526614, AI365012, AI299507, AI918967, AI553849, AI560300, AI950742, AW075387, AA868647, AA674712, AI690364, AA411518, AA713800, AA953331, AI094450, AA682774, R96820, AA302484, AA872093, AI300639, AI015741, AA130713, AW262508, AI051521, AA496620, AA496495, T24559, Z38471, AA736839, F31462, F18178, AI350873, AA805472, AA988865, AA496495, T24559, AI081865, AI144428, H61569, AA373811, AA229480, AA132945, AA703237, AA229962, AI690505, AA745775, AI720505, AI453250, AW009901, AW015954, AW118526, AI249388, AI282565, R56834, AI219656, AI285115, AI369774, AA461097, AW130721, AW339140, AW273429, AW148657, AI538694, AA065282, AI866733, AI874208, AI195700, AI805844, AW008035, AI829142, AW337251, AI983830, H46569, AI814591, AI818220, AW269978, AW168266, AI186921, AA229233, AI610303, N34882, AA832328, AA923506, AI078009, AI301063, AA670351, AI203695, AI339100, AA987523, AI803837, AI751711, AI445423, W94943, AA449775, AA280728, AI017038, AW276596, AI423558, AI828679, AA677814, AI954092, W68425, AI754933, AI799656, AI092937, AI277972, AW274402, AI310725, R59097, AI279557, AI310726, AW410249, AA526185, AA573897, AI078388, AI741564, AI147456, H98073, AA410004, AI300518, AA526998, AI721118, AA522451, AA508660, AA004278, AW182880, AW411240, AI953077, AA533655, AI283484, AI970703, W90665, H56058, AI120205, AI0734, T73441, AI591031, AI741030, AW270071, AI827198, AA628743, H25535, AI972733, AI927014, T51235, N91829, AA853526, AI860745, AI887607, AA580297, AI348361, R56835, AA229196, AA858412, AI102712, AA228723, AI535963, H26397, AA526103, AW189969, AA229458, AA644220, D25820, AW410257, AA557419, AF151822, AF176006, AF189289, and AF192559.
HCFB14	347	658542	1 - 233	15 - 247	AA223831.
HCFB14	348	850449	1 - 141	15 - 155	AF172244, and Z74023.
HCFB14	349	953506	1 - 286	15 - 300	AI127475, AI871007, AA142876, AI523587, AI830621, AW134689, AI825831, AA773904, AI862655, AI143146, AI768600, AA576383, AI307774, AW274750, AI916645, AA633463, AI334590, AI867665, AI867677, and AW152392.
HCFB13	351	576018	1 - 330	15 - 344	
HCFB13	352	576669	1 - 289	15 - 480	
HCFB13	353	959617	1 - 289	15 - 303	
HCFB13	354	576126	1 - 628	15 - 642	AA553332, AA343810, AI354333, AA496309, AA745302, F01222, N70957, AA757869,

AA584597, AW277135, AA297698, AA532875, AI146266, AW249720, T30864, AA484256, AW084161, AA295874, AA295865, T63747, AI167549, AA229842, AI866971, AI096766, AC005225, AI133163, AC003663, AP000501, AC004927, D87675, AC005237, AC006285, AC005089, AI031587, AC005215, AF111168, AI031176, AI034429, AI109801, AI121655, AC004821, U07561, AP000359, I78833, AP000555, AI133241, AI022323, AC016025, Z95114, AI117258, AP000343, AC002432, AC004216, Z95017, AI031276, AI035071, AI050302, AI049569, AP00263, AC002395, AC005483, AP000036, AI049692, AC005387, AI096791, AP000088, AI133448, AC000397, AC005808, AC006315, AI022163, AC002106, AR004690, AC006430, X87373, AC005358, AC004983, AC005621, AC009069, AI096703, AC008150, AC005755, AC005102, Z98884, AC006211, U82757, AC005740, AC006128, AC005527, AB016897, and AC004476.				
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AI028522, AI040333, and AI055988.			15 - 315	
AI028522, AI040333, and AI055988.			15 - 477	
F19258, AI820743, AI003172, W00516, AI003743, AA551509, AI038785, AW104748, AI365988, AA635417, AI205126, AI762575, AA229785, AI914706, AI350211, AA584749, AA557325, AA483204, AI962050, AA340003, AI917271, AW265294, F29989, AW166815, AA077935, AI358229, AI904894, AI567674, AW339687, AA856981, AI635272, AI815000, F26576, AI474713, AA973575, AI569086, AW080134, AI038279, AW337985, AA515051, AI079910, AI133636, AW130799, AI445436, AI890052, AI963786, AI929531, AI079645, AA482711, AI469003, AI433187, AI890923, AW162049, AI042856, AI679782, AI713815, AA077817, F31619, AA344959, AI119391, AA579184, AA077952, AI041368, AW440836, AA558269, AW029038, AW118011, AW105538, AI625244, N95715, AI040913, AW088202, AA228329, AI421213, AI471729, AI358343, AW003434, AI866807, AW264969, F36273, AI048144, AI499094, AI051551, AW069807, AI049722, AI339850, AW193432, AI284454, AW074398, AI149915, AA904218, AW406755, AI041412, AI3088616, AI244254, AI120674, AA340960, C06327, AA365587, AI064952, AW265197, AI068626, AI046746, AI547286, AW743956, AI635515, AA228420, AI82907, AI837755, AA339076, H88666, AI251002, AW75664, AI305766, AA639025, AI001270, AI053535, AA745410, AW338500, AI963720, AI761471, AW327360, AI563873, AI468134, AI366035, AI922840, AI886060, AA078483, F31204, AI341664, AA826032, AI590038, T12272, AI001344, T29180, W49488, AI610159, AA533138, AI934307, AI516326, T55510, AW407220, AI720141, AI601218, AA3381665, AA515128, AA365144, AI286264, C05755, AI688846, AA658235, AA826303, R89296, W38648, AA580662, AW131034, AI291047, AI935827, AI918421, N58729, AI886365, AI827234, AW151016, AW023672, AI821776, AW157005, AW193265, AI028510, AI613280, AW103239, AW419118, AA987962, AA669961, AA843450, AI637587, AI082510, AI133986, AI951889, AI951928,				
HCFB039	355	835926	1 - 423	
HCFB076	356	577218	1 - 301	
HCFB92	357	576864	1 - 463	
HCFB525	358	828076	1 - 326	
HCFB573	359	506244	1 - 484	

AA732212, AA659774, AA528441, AD061334, AD291823, AA492244, AL807372, AL124660, W26042, AL127900, AL031303, AL039809, H13868, AL054246, AL136034, AL054589, AL802526, AL110688, AL368745, AA457637, AL355387, AL71481, AL890928, AL053476, AL0533774, AL890570, AL806850, AW276829, AL038990, AW327961, C06458, AL054609, AL153723, AL190591, AA4489775, AA443065, AL588856, AW327960, AL879900, AA115968, AL926846, AL177861, AL148265, AL863283, AL886176, AA364488, AW264973, AW192199, F13749, AA225195, AW238016, AL135643, AA535661, AA601492, AL537955, AL446601, AW102955, AA148489, AA715606, F35659, AW477889, AA364567, AL49874, AL284467, AL719014, AC005694, AC005527, AC005529, AC007687, AC004814, AC005040, AL023574, AL0494589, AC004617, AR060472, U29953, AC005924, AL109733, AC005954, AC004651, AC004029, AL13246, Z97630, AC005225, AL133297, AC006441, AC007436, AF045448, AC002295, AC007845, AC005177, AC006285, AC005772, AC016025, AC008372, AC004592, AP000358, AP000934, AP000561, AC002430, AF165926, AC007384, AC007320, S48196, X53795, Z77894, AL132992, AC005222, AL021977, AC004506, AC006011, AF015162, AC004189, AP000563, AP000133, AP000211, AC000062, AL033569, AL034400, AC006518, AL121694, AC005696, AL049836, AF029308, AC003104, AL031286, Z93023, AP000855, AL023803, AL022323, AC005229, AF002991, AC006537, AC003048, AC005164, Z82203, AC005999, AL022576, AL033381, AC008126, AP000359, AC004186, AC003959, AL021878, Z98950, AC003003, AC007051, A39972, AC004806, U12580, AC002462, Z98744, AC004866, AC005399, AC007671, AF196779, AC004019, AC005341, AL031709, AC006132, AC005156, AC005207, AC005754, AL121578, L13713, L13714, S75337, AP000305, Z73496, AP000047, AP000115, AF064863, Z98754, AC005922, AL034549, AC006511, AC002041, AL035402, AF0210990, AC006512, AB002329, AL033544, AC005387, AL035450, AC006312, AC006221, AC003088, AC005661, AF164343, AP000049, AP000193, AF043945, AC005064, AF064866, AP000311, Z73986, AC005099, AP000117, AP0000352, AL021808, AC007551, AC006480, AC007262, AC006374, AC007461, AC006241, AC005832, AC007319, AC006249, AC007543, AC004382, AC004789, AF140763, Z47046, AC005574, AC008165, AF031078, AC003001, AF030876, AC007558, AL078644, U47924, S75201, AL022393, AC006373, Z81369, AC004741, AC004808, AL009177, AL021939, AL079295, AC022517, AC002487, AF015160, AC005610, AF015171, AF015167, AF015170, AF015169, AC001528, AF015168, L81648, AC006048, AC005262, AC003030, AL049859, AP000509, AC006262, AL096771, AC004167, AC008134, AF064857, U12583, M96868, X13921, AB014460, AF015725, AC002323, AC005525, AC002105, AC005786, AC006456, AF190465, AP000495, AL109618, Z82900, AC006150, AC005048, AL030112, AC005589, AC004861, AC002347, AL050343, AC004103, AC005913, AC000111, U07000, AC004832, AC018767, AP001037, AC004816, AC004945, AC007065, AC005822, AC005084, AC004168, AC004831, AL031121, AC000052, AC007055, AL109865, AC000134, AC005406, AC006449, U18392, AC006352, AL034424, Z69921, AF060568, X04981, X71874, AC003966,				
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HCBU01	360	916703	1 - 543	15 - 557	AC001422.
HCBU038	361	707620	1 - 273	15 - 287	AA654338, R11792, R18553, AA488229, and R33569.
HCBU084	362	573546	1 - 447	15 - 461	AL817736, AL084181, and AP018987.
HCBU085	363	576010	1 - 265	15 - 269	AP000315, AP000118, and AP000165.
HCBUW13	364	828042	1 - 458	15 - 472	Z42409, R59109, W78198, AW276841, R14684, AC004013, AJ010770, AB018346, AF091711, AF083037, AB019691, and AJ131693.
HCIFY02	365	920340	1 - 409	15 - 423	AL859280, AW392291, AL342622, AL598003, and AW167154.
HCFA31	366	725700	1 - 421	15 - 435	R09578, AA676513, H10338, AA313594, AA333602, N25123, T32628, AL135366, N56063, Z42875, R47343, AA411514, T55290, H40743, H40750, AA402101, AA496316, AA320228, AA040891, AB017196, and D87451.
HCFCB67	367	751764	1 - 445	15 - 459	AA862312, AL564185, AA702605, AA469451, AL368862, AL628288, AL904586, AL904594, AT742168, AA847499, AL042667, AL042670, AL679294, AW169038, AA481887, AL679871, AA827771, AL143840, R03642, AL623364, AP003626, AC006277, AC005534, AC002542, AL049759, AL021940, AL031848, AC005512, Z93930, AL021877, AC005488, AC003666, AL096712, AC004019, AP000133, AP000211, AL050332, AF134726, AC004913, AC007676, AP000503, AL034420, Z99716, Z97632, AC005280, AC007536, AC004596, AC002316, AC007731, AC005500, U47924, AC006441, AL033527, AC004526, AC000025, AL096701, AL022336, AC005971, L47234, AC008124, AL035420, Z95114, AF064861, AP000140, AC005529, AC004033, AC008372, Z98742, AC000120, AL008718, AL022320, AC005899, AF190465, AC005696, AL049776, AL109827, AC006207, AC005015, AC003977, AF048729, AF109907, AP000501, AC005932, AL135744, AL133371, AC009247, AL034429, Z82190, AF031078, AC004150, AF030876, AC002115, AL132987, AP000088, AC006121, AC005300, AL133245, AC007541, AC003950, AC004825, AL035703, AC009044, AL133233, Z84496, AC002470, AL022313, AC007308, AC006487, AC002558, AL022163, AC002725, AC004821, AC006455, AL022322, AC006273, AP000432, AL050318, AF111169, AC007878, AP000513, AL049869, AL096699, AC007066, AC005821, Z98044, AL031680, Z83819, AC005520, AP001052, AL031780, AC005625, AC007664, AC005871, AC006312, AF002223, AL031597, AC002477, AL031005, AL031846, AC005255, AL021546, AC005060, AP000030, AC006538, AC005067, AC005839, AC006023, AC005232, AC008249, Z93020, AC002543, AL033683, AC007546, AL020997, AC005527, AC005484, AC005881, AL021391, AC005841, AC006111, Z84480, AB017602, AC005399, Z82198, AC005940, AC004228, AL035079, AC004796, AC005326, AL008635, AF001549, AL139054, AC005304, AL034417, AL121653, AC005237, AL079342, AC004750, Z82097, Z99128, AC005924, AF108083, AC000118, AL133163, AC005412, AC005920, AC005568, AL109980, AC004841, AC005546, AC004662, AP000049, AP000116, AC002472, AC008122, AC004832, AC003684, Z85987, AC004686, AF053356,

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					AC009731.
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HFCCS57	368	577375	1 - 390	15 - 404	
HFCC68	369	753089	1 - 276	15 - 290	
HFCC94	370	670538	1 - 431	15 - 445	
HFCD44	371	883973	1 - 396	15 - 410	
HFCD47	372	894415	1 - 382	15 - 396	
HFCD47	373	720400	1 - 267	15 - 281	
HFCD21	374	671028	1 - 179	15 - 193	

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HCFCM12	375	970835	1 - 846	15 - 860	
HCFCN66	376	850422	1 - 422	15 - 436	

AA487209, AI217162, AA354695, AI049504, F35684, AW195271, AA420703, AW105729, AW192518, AA429481, AA541532, AW073934, AI310343, AW194046, AA135761, AI889579, AA410788, AW347174, AI216151, AI366555, AA573000, AI050076, AA553594, AA023894, T48723, AW341882, T47075, AI082510, AA669961, AA664126, AA568314, AA745628, AA513884, AW419389, AA579184, AS25253, AI251241, T41134, AW302017, AW023111, AA484892, AW089950, AW341955, AI278972, AA704393, AI356440, AI306717, AW6768179, AW327751, AI521019, AI984168, AA947370, AA349606, F23262, AI254779, AA365586, AI295531, R67701, AI872229, AI268818, AI471455, AI340832, AI031759, AA738014, AA721645, T93105, AA278496, N71619, AA715351, AA728861, AI572680, AA493840, AI300054, AW169038, AI049722, AF111168, AC005280, AI050321, AI049843, AF003626, AI133246, AC004834, AP000030, AC007510, I34294, AP000556, AI022333, AC005015, Z98051, AI031985, AI022326, AC004491, AC005696, AI031280, AC005327, AC005005, AI035587, AC005841, AC006275, AI031121, AC004552, AC004623, AC005288, AI008726, AC004990, Z69719, AC003098, AP000354, AP000298, AB001523, AC006241, Z68276, AF039907, AI133245, AP000252, AC005031, AC005839, AC005559, AI133448, AC000553, AP000212, AP000134, AC004999, U80017, Z85996, AC005914, AC004254, AC003688, AC005037, AI139054, AI096701, AC006288, AC005632, AF001549, AC000404, AP000112, AI096775, AC002381, AC002401, AC007731, AC005261, AC005500, AC005901, AP000691, AC007688, AC007690, AC005902, AC008154, AC006597, AI035413, AC006487, AC006539, AC006370, U81031, AC000028, AC002375, AP000692, X54156, U94788, AI021155, AC007565, U73330, AI022398, AC007421, AI008730, AC005231, AC007766, AC006511, AI034395, AC003962, Z97056, AC004973, AC002472, AC002477, AC002119, AC006450, AC006042, AC006468, Z69917, AI049873, Z98885, AC005972, AI109613, AC005788, AI031393, AC005913, AF045555, AI246003, AC004462, AC004796, AP000688, AI050318, AI031588, AI035652, AC004878, AC004856, AC003007, AF064866, AC009247, AP000725, AI031255, AC003690, AC005365, AI031229, AC006538, AI031685, AC006116, AP000512, AC004150, AI008719, AC006544, AC004659, AC004771, AC004643, AC007686, AI121754, AP000501, AC004752, AF053356, AP000300, AI080317, AC004103, Z84469, AP000116, AC005800, Z82208, Z93017, Z98047, AI133355, AP000151, AI049780, AI008720, AP000511, AI049631, AC007243, AI034420, Z96074, Z82244, AC003071, AC005004, AC007312, L77570, AC007546, AC006455, AI035089, AC002288, AC005207, AC005520, AI121655, AI109799, AI021808, AC002312, AC007664, AC005828, AC004590, AC008989, AC004033, AC005874, AI033471, AI035455, AC004983, Z97989, AC007226, AP000152, AC007429, AC002527, AF064857, AC003043, AC008064, AF001550, AC004797, AI035695, AC005736, AC003667, AC002492, AC011456, AC002565, AC005220, AC004966, AC005778, AC004019, AC008045, AC004814, AC006084, AI121603, AI024498, AC005324, AP000113, AP000045, AC005837, AC005777, AC002363, AC005239, AC008044, AI031667, Z93241,

HCFCN81	377	576871	1-581	15-595	AL078381, AC004851, AL031663, AL031282, AL009181, AC000025, AC004650, AC005180, AC004859, AC006464, AF000115, AC002476, AC006101, AL117354, AL031284, AC005535, AL133312, AC002390, AL0031848, AC006537, AC006271, AC005723, Z83840, AC004707, AL034402, and AC008372.
HCFCN81	377	576871	1-581	15-595	RI3709, Z44811, and AA084016.
HCFCP14	378	577277	1-318	15-332	AL043121, H26563, A4774273, and A4480145.
HCFCP31	379	764750	1-431	15-445	AL033547.
HCFCR76	380	862688	1-552	15-566	AL033043.
HCFCX73	381	575958	1-349	15-363	HC0303, AL809174, AC005091, AC004671, AL031283, AC020663, AL034417, and AC002527.
HCFCB13	382	576709	1-325	15-339	
HCFCDD48	383	720938	1-363	15-377	
HCFCDE10	384	961270	1-411	15-425	
HCFCDE19	385	671507	1-550	15-564	AA126608, and AC003959.
HCFCDE79	386	575996	1-350	15-364	
HCFCF28	387	968304	1-344	15-358	
HCFCFD28	388	850564	1-517	15-531	AW294229.
HCFCFD78	389	773685	1-659	15-673	AA284357, AL161251, AA703386, AL144156, AL080716, T95314, H44601, R54003, R53410, AL070367, T95366, A863960, AA705879, AA444145, AA443965, AL045360, AL819631, AB862146, AL119399, AL363575, AL289542, AW020397, AL043168, AL253379, AC002056, AW162194, AL698391, AL633125, AA587590, AL051088, AL046466, AW151893, AL638644, AL345415, AL890907, AL345612, AL590043, AL589428, AL042382, F27788, AL037454, AL800341, AA806719, AL345416, AL565172, AL043152, AL679550, AL567582, AL802542, AL042544, AL500661, AW089844, AW274355, AL884318, AL079794, AL119457, AW29108, AL637584, AL889189, AL470293, AL041862, AW152182, AL345688, AL923989, AL567513, AL501059, AW007309, AL479292, AL538850, AL866469, AL890391, AL538764, AL036187, AL817523, AL702073, AL473536, AL119324, AL33500, AL499890, AW129264, AL636588, AL540458, AL954183, AW129659, AL673363, AL040241, AA808175, AL110306, AL267162, AL433644, AL870192, AL969655, AW301344, AL038505, AL254814, AW059766, AA580663, AL446775, AL567769, AL469425, H89138, AL491710, AL270183, AL690813, AL433157, AL589134, AW021717, AL539800, AL119511, AL538885, AW022300, AL046618, AL828679, AW104056, AW021178, AL037582, AL245008, AL037602, AL540674, AL685080, AA975952, AW079572, AC008151, AL4146191, AC005968, AL050309, AC007458, AL050322, Z82206, AL050306, AL031732, AC005296, AC007392, AC007298, AC002464, AL035258, AL031904, U95739, AC018769, AC018767, AC002287, and AC009286.
HCFLB44	390	576679	1-339	15-353	AL697165, AL434288, AL642239, AL818876, AA970105, AL271514, AL571352, AA411035.
HCFLB95	391	945122	1-576	15-590	

HCFLP96	392	579039	1 - 330	15 - 344	AI371320, AA65735, AA134979, AI133257, AI536609, AW248707, AI198061, AW182002, AI261681, AI991804, AA344380, AI810573, AI685434, AA293139, AI699206, AA652700, AI688845, AI458014, R60967, AW007141, AA419241, AI089210, AI369965, AA489594, AW383812, AI739141, AC004707, and DI3623.
HCFLG84	393	771243	1 - 425	15 - 439	AA978266, AL049780, and AC007055.
HCFLI49	394	722269	1 - 525	15 - 539	AA312278.
HCFLJ40	395	576068	1 - 324	15 - 338	
HCFLP31	396	698139	1 - 460	15 - 474	
HCFLR55	397	576043	1 - 243	15 - 257	Z84475, and AC006924.
HCFLR83	398	576054	1 - 576	15 - 590	AL043019, AL042433, AI142132, AW372827, AI134902, AI142137, AI134524, AI119401, AI119443, AI142139, AL042896, AL079687, AL039912, AI134525, AI119522, AI119396, AL042978, AL042544, U46351, AI134536, AL042965, AL042975, AI119418, AL037205, AL042984, AL042542, AI119464, AL043033, AL043029, AI042551, AI119511, AL043003, Z99496, AR069079, AR043113, AR066494, and AR060234.
HCFLT42	399	576040	1 - 396	15 - 410	AA281808.
HCFLU12	400	970849	1 - 506	15 - 520	AA096816.
HCFLW38	401	964870	1 - 513	15 - 527	AA082673, and Z36960.
HCFLW42	402	670519	1 - 437	15 - 451	AI040051, AW438542, AI824541, AW021917, AA130647, AI004591, AI270476, AI061313, AA225044, AA878140, AW265990, AA582554, AW167154, AW103383, AI623563, AA862243, AA653139, T50676, AW105729, AA665181, AA610509, AI821044, AI039187, AI590458, AW302048, AA570740, AA483606, AI275183, AA955031, AW075132, AA568204, AI536625, AA658844, AA574442, AI745473, AA879063, AI598003, AA601278, AI559645, AA528480, AA664604, AI292236, AA528390, AA613627, AI590499, AI338426, R94354, AA121777, AI276298, AI191418, AA970967, AI017251, AI791659, AI753365, AI859280, AA598545, AA579566, AA224995, AA584482, AI654285, R94288, AA347114, AI244356, AA581460, AA572683, AW161636, AA618316, R96643, AC005822, U50871, M87914, AC006512, AI035588, S42653, AP000555, AI313757, AC005399, AL049872, AF053356, AC005341, Z99716, AC005529, AC005057, AP000212, AF196779, AC005778, AI109623, AC005747, AC005899, Z69917, AC006965, AC002470, Z95114, AF134726, AI022069, AC005089, AC005907, AC004408, Z98884, AI022313, AF045555, AI009181, AI022069, AC005041, AC006480, AL049557, AI021978, AF187320, AC009498, AP000512, U85195, AI109952, AP000552, AC007685, AC007227, AC005391, AC007421, AC005288, U47924, AE000658, AL008726, AC006013, AC005588, AC002538, AC005225, AI139054, AC006600, AC004975, AI034555, AC005746, AC005484, AI021694, AC003665, AI035072, Z82901, Z82214, AI050308, AC006953, AC005082, AB022537, AC004099, Z97056, AI034420, X84664, AC007052, AC007686, AI034548, AI033521, AC004386, AC005562, AI096776, AF196969,

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HCfMD15	403	975075	1 - 657	15 - 671
HCfMD23	404	676003	1 - 324	15 - 338
HCfME27	405	576815	1 - 423	15 - 437
HCfMF47	406	973243	1 - 567	15 - 581
HCfMF64	407	773342	1 - 812	15 - 826
HCfMG14	408	576063	1 - 354	15 - 368
HCfMH12	409	970843	1 - 457	15 - 471
				AL046464, AL284640, AA649642, AA515435, AW440976, AW236342, AL264743, AW383634, AA350859, AL023696, F32894, AA483034, AL273185, AL688846, AL205126, AA318652, H64777, T63104, AA470985, AA365347, AA538697, AA535661, AL053672, AA886584, AL046464, AA077817, AL471481, AL910609, AL231002, T07287, AA557879, AW193265, AW383542, AA605274, AA747472, AA513999, AW193432, AL334443, AW088038, AA593060, AW089810, AW272758, AW438643, AL350211, M62249, AL830390, AA177061, F36273, AL110770, AA601892, AL648558, R13151, AA229785, AL823782, AW276827, AL824562, AL590689, AL590938, AA714453, AW338086, AL046409, AL040313, AL608626, AF150152, AA331025, AL085719, AA368936, AL049722, AL281881, AW383608, AW383628, AA328591, T06556, AW383440, AA369477, AL431303, AW383586, AA720702, AL282336, F19012, AA364224, AW406447, AL986251, AW029038, AW383605, F24284, AA593247, AW383624, AL962050, AL341664, AW383606, AL281903, T40077, AL286356, AA653221, AL120674, AL537955, AW261871, AA252763, AL287528, AL653905, AL367401, AW419262, AL367420, AL890923, AL352078, T08638, F37169, AL291124, AL499938, AW272641, AL687962, AA366820, AL56799, AL049940, AA300016, AW272925, AW339568, AL929531, AL805380, AL418327, T40338.
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HCNMFJ70	410	576096	1 - 342	15 - 356	AC005385, U91327, U66059, AC004799, AI031258, AC006292, AC004996, U07000, AC004006, AC004841, AI022318, AC004987, AC003075, AP000460, and AC005822.
HCNMFJ25	411	576081	1 - 256	15 - 270	AA493118, and AI135744.
HCNMFJ27	412	576094	1 - 361	15 - 375	AC006388.
HCNMFJ49	413	576098	1 - 409	15 - 423	
HCNMFJ62	414	576097	1 - 423	15 - 437	AI031594.
HCNMFJ63	415	506251	1 - 365	15 - 379	
HCNMFJ42	416	576667	1 - 451	15 - 465	
HCNMFJ81	417	506250	1 - 468	15 - 482	AC006406.
HCNMFJ07	418	953522	1 - 150	15 - 164	AC006978.
HCNMFJ064	419	805822	1 - 664	15 - 678	R16166, AW245400, AI092564, AI298418, AI190180, AI135607, AA255476, AW341937, AA774687, AA232248, AI675174, AI356983, AA770006, AI500630, AI200144, AI339987, AW071871, AA350500, AA732754, AI086463, AA055479, AI080604, AI591153, AI090505, AI090526, AI619931, AI151262, AA765701, AI015327, AA177394, AA257977, AI857270, AW058653, AI858857, AI743631, AW131669, AI361482, AA171810, AA621676, AW072043, AA159603, AA165670, AA357206, AW070895, AI083788, AA643264, AA699650, AA373130, N29760, AW248832, AI401838, AI696781, AA086047, AI829320, AA232744, R44869, AI133807, AI089956, F09118, AI352487, AA369978, AA486761, AI182536, AI128868, AI699007, AA134215, AA977086, AI885043, AA232537, AA954867, AI086697, AA256882, AA457397, AA865872, AA757809, AA811925, AW377769, AA805830, AW006314, AI758593, AA045484, AI246878, AA421465, AI679033, AI587487, AI572423, T30157, AA515407, AW193414, AW085830, AI672912, AW196633, AA527495, AA568558, AA026270, AA594129, AI569433, AA864390, F03978, R51276, AW304405, AI017824, AI061053, AI074649, AW009091, AI566098, AA999878, AI888289, AI097100, AI587320, AW002779, AA725226, AI559525, AI017407, AI741332, AI911638, AI685232, AI890180, AW295035, AI991285, AW084565, AI859307, AI090794, AI744955, AW182337, AA844680, AA535324, AI014459, H28345, AA357685, AI143713, R35871, AW129646, AA457115, AW044140, R67967, R26888, AI660218, M79078, AI742893, AI436778, AI718841, AW292472, AI818656, AA421496, AA664765, AA621134, AI719132, H65810, N74909, AW087942, AA457447, and AI811113.
HCNMFJ62	420	954213	1 - 560	15 - 574	
HCNMFJ85	421	933017	1 - 298	15 - 312	AC006479.
HCNMFJ17	422	664132	1 - 475	15 - 489	AW362709, AI165294, AI012376, and AI165281.
HCNFA30	423	772262	1 - 129	15 - 143	
HCNFB62	424	576446	1 - 336	15 - 350	AW002831, R69327, AA713735, AI118925, AA808982, AA745302, AA335519, AA429481, AW381847, AW381904, AA714073, AA364006, H43183, AA496309, AA577141, AA192366,

HCNFK43	425	973548	1 - 693	15 - 707	AL0207476, AA297698, AA676875, AA587078, AL015081, AA295865, AA295874, AW080215, AA367388, AA363027, RS2008, AA477517, T83057, AA224807, H89581, AW117723, AA663047, AA522500, AA439393, AA630122, H43771, AA532875, AL217195, AL342183, AT798047, AA441810, AA728939, AA715418, AA225358, AW157731, T07346, AC0077893, AA772704, AA513125, AA525807, R87275, AL217166, AL368732, AA715075, AL870453, AW074497, AL021368, AC000091, AL035405, AL022336, AF111168, AC008040, Z49736, AC004883, AC005829, AC007227, AC000378, AC006505, AC004851, AC005726, AC007308, AC008928, Z97056, Z95116, AC000353, AL133246, AC002126, AC006239, AP000555, AC002115, AL035249, Z98950, AC0007546, AL031230, AL031905, AC0007632, AC0047703, AC005914, AP000103, AP000032, AL133448, AL031591, AL251973, Z99943, AC005952, AL049758, AF196779, AL031848, AF002223, AP000704, AL021453, AC003042, AC002070, AF196971, U62292, AC006965, Z98884, AL021578, AC007637, AL023284, AC005088, AL117694, AC002511, AC005763, AL022238, AC005488, Z73900, AP000008, AC009516, AC006146, AC003663, AC006486, AL078581, AF196970, AC004821, AL031255, U95741, AF042484, AC004531, AC006111, AC005609, AC005874, AF134471, AL021977, AC002404, AL050308, AP000030, AC004583, AC004223, AC003108, AC005920, AP000269, AL135960, AL131016, AC004228, AC003957, AF030453, AC005753, Z93930, U63721, AL080248, AL035659, AC004687, AF111170, AL022312, D87675, AC004611, Z84469, AF077550, AL117344, AC009802, AL008715, AC008055, AL035086, AC004098, AL049872, AL117258, AC004805, AC002563, AC004644, Z82206, AC005102, AC005086, AC002477, AL031587, Z85987, AC006463, AL020997, U07000, AL022311, AF067844, AL009172, AL133445, AL049843, AF001549, AC004967, AP000212, AP000134, AC004125, AC005722, AC004030, AC004150, AC006163, AC005778, AC004760, M87889, AC005081, AD000092, AL049692, AC005924, AC005531, AF006501, AF064861, AC004794, AL023879, AC006312, AC005409, AC002565, AC010205, AC005206, AL049709, AC005899, AF196969, AC002400, AC006014, AF039906, AC004985, AC002470, AB023051, AC006449, AC005736, AC002663, AL008726, AC007363, AC005231, AC005972, AC004991, AC005755, AC006165, AL049793, AC006509, AC007565, AL031659, AF176815, AC007725, AC005331, AL121825, Z84466, AC002551, AL109798, AC002314, AC005244, AC004881, AL022396, AC005229, AF001550, AC005332, AC002492, AP000494, AC005667, AC005412, AP000689, AC007065, Z95152, AP000556, Z93023, AC007226, AL049776, AD000812, AB016897, AC002559, AC006088, AC005756, AL122020, AL049779, AC004983, U91323, AL132987, AL109801, AL049569, AP000509, AC004552, AC005011, AC005225, AC004770, AC005343, AF000014, AL031258, AL021154, Z98036, AL031284, AL049646, AL022320, Z93020, AC008116, AL031276, AC005786, AL031056, Z97630, AC004841, AC008134, AC004033, and AC004148.
HCNFK43	425	973548	1 - 693	15 - 707	AC005999, AL031012, AL078602, AC002485, AL022164, AL031429, and AC005539.
HCN055	426	576008	1 - 359	15 - 373	

HCFO11	427	613351	1 - 888	15 - 902	T57391, N26420, AW340665, A1827647, AA280976, AA521364, AW340711, A1217472, AA429950, AW274378, AW340146, A1970154, AA906042, A1290997, AW188032, AC006208, and A1003081.
HCFOB11	428	967196	1 - 126	15 - 140	AA648299.
HCFOE38	429	576005	1 - 302	15 - 316	
HCFO90	430	561625	1 - 529	15 - 543	A1801107.
HCFOG82	431	576007	1 - 380	15 - 394	AA229738, and AA229023.
HCFOH56	432	577114	1 - 385	15 - 399	T11456.
HCFOI11	433	967195	1 - 316	15 - 330	A1066646, A1375684, A1755202, A1720301, AW130427, L42230, AC002128, AC005808, AC005327, AL031965, and AC008994.
HCFOI96	434	796104	1 - 482	15 - 496	Z30202.
HCFOO18	435	575965	1 - 387	15 - 401	
HCFOF42	436	460824	1 - 537	15 - 551	AA480486, AA469230, H81700, AA468356, AA502532, AW238495, AA018923, A1537800, A1609972, AA021561, AA768179, AA608561, AA362349, AA229159, AW392414, AA857812, H86221, AA429481, AA829036, A1267356, AA728861, H99700, A1279417, AA610233, AA773881, AA599080, A1648514, N91711, A1738863, AA558404, AA459733, AA715351, AA601680, N41775, A1267450, AA601212, AW302017, A1185394, H84412, A471455, N70449, AA564925, W28961, A1280535, AA573000, H24957, A1340858, A1718323, AA376896, A1687343, AW440358, AA654482, F00688, AA351808, AA197019, A1583466, A106232, A1251576, AA302661, AA297443, A1340700, AA302978, AA629852, AA228979, A1929796, A1933716, W63553, AA457754, AW328331, AA229823, A1253376, AW188742, AW150781, AA946848, AA507675, H67064, AA019003, AA7328330, A1932871, H59651, N28624, A1306717, A1137946, AW274191, AA610381, A1249365, A1041375, AA362348, H58293, B69819, A1282629, A1249688, AA515168, AA648569, AC005318, Z95326, A1035088, L44140, AC007993, AC004859, A1133163, AC007056, L77570, A130343, Z81007, A1080243, AP005003, A1021707, AB002345, AC004856, A134726, U73644, AC004638, AC004983, AC000003, AC005005, AC005632, A1099867, A1008719, AC002306, M87889, AC006512, A1035400, A1034553, AC004646, AC005768, AC002985, AF207550, A111168, AC004525, AC006455, AF111169, AP000348, AC005225, AP000349, A1023883, AC004587, AC005189, AC005696, A1096678, AC002350, AC004167, AC002064, AC003108, AC005027, A1023655, AC005569, U96409, A1109758, AC005207, AC005004, AC005071, A1022326, AC003007, A1031584, AP000330, AP000343, AP000555, A1022718, AC006050, Z94801, AC007057, A1049872, AC004817, AC002400, A1049569, A1009050, AC006017, AC005480, Z85987, AC009300, AC006315, A1121757, Z83820, A109610, AP001060, Z68285, AP003362, AC006948, A1184971, A1022316, A1096791, A1034555, AC005952, AC007308, AC004030, AF053356, AC002470, AC006013, AP000354, AC007684, A1031685, AC002302, A9015355, AC006509, A1035448, AC006360, A1121653, A1035458, Z70280, AC004967, Z95115.

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HCFO46	437	927654	1 - 390	15 - 404	
HCUAA60	438	670941	1 - 54	15 - 68	AL749002.
HCUAD58	439	738408	1 - 302	15 - 316	AW134410, and AL042629.
HCUAE70	440	959686	1 - 223	15 - 237	
HCUAG89	441	706427	1 - 417	15 - 431	
HCUAG92	442	504395	1 - 314	15 - 328	AA342610.
HCUAH15	443	916651	1 - 217	15 - 231	T78930.
HCUAH60	444	916621	1 - 218	15 - 232	AL249862, AA911187, W52505, AW118534, A1085242, H72530, AP000555, D86995, AC004787, Z68870, AL021154, AC004491, AC004142, AL109738, and AC004032.
HCUAH70	445	574164	1 - 280	15 - 294	R70107, R69934, AL031681, AC005387, and AC004821.
HCUA171	446	959492	1 - 334	15 - 348	AL049830, AC007280, and AC003982.
HCUAK23	447	676289	1 - 240	15 - 254	AL133485.
HCUAK49	448	574256	1 - 279	15 - 293	AA502860, AA593267, AA558227, AL446638, F35659, T58118, AL137954, AL0963095, H73081, AW028429, AW148792, AL042756, AA448795, AL141675, AL121572, AW438916, AA487884, AL358501, AA579249, AL099094, AW069807, AW193609, N27353, AW029280, AL1884487, AL676218, AW130535, AL915068, T91187, R80865, AT761471, AL1926681, AL1860677, AL248679, AL680243, AL625570, AL039451, T65812, N66945, AL625468, AL383838, AA977743, AA629939, AL176892, AL125139, T08074, AA664535, R35972, AL048925, AL928866, AL037574, AA828662, AA339432, Z70688, AC003009, AC006252, AL080243, Z69630, AC005944, AC004167, AC005516, AC004141, AP000065, AC007766, Z84718, AP000351, AL049745, AC004253, AC003665, AC005195, AC005668, AL031584, AC005666, S43650,